

SciELO

595.77  
S239c  
v.2

**DEDALUS - Acervo - MZ**

Catalogue of the diptera of the americas south of united states /



12400006018

CANCELADO

CANCELADO



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

30

## FAMILY PANTOPHTHALMIDAE

NELSON PAPAVERO

*Departamento de Zoologia, Secretaria da Agricultura  
São Paulo, Brasil*

A relatively small, forest-dwelling, exclusively Neotropical family of large-sized flies. Eggs are laid on the bark of several kinds of trees. The larvae penetrate into the wood either actively or through holes and crevices previously available; they seem to live as wood-borers, feeding upon the sap. Pupation occurs at the entrance of the galleries, the anterior portion of the pupa appearing in the outside.

Some points of the biology of a few species have been investigated by Fiebrig (1906), Hempel (1912), Navarro de Andrade (1930), Greene & Urich (1931) and Thorpe (1934). The larval anatomy was studied by Fiebrig (1906) and that of the adult by Thorpe (1934). The family was monographed by Carrera & d'Andretta (1957). For informations on nomenclatorial matters I thank Dr. Curtis W. Sabrosky.

## Genus PANTOPHTHALMUS Thunberg

PANTOPHTHALMUS Thunberg, 1819:7. Type-species, *tabaninus* Thunberg (mon.). (According to Neave, 1940:550, three different spellings appeared in Thunberg's original paper, which I have not seen: *Pantophtalmus*, on p. 7, *Pantophthalmus*, p. 8, and *Panophthalmus* in the explanation of the plate. Subsequent authors have employed the classically correct form *Pantophthalmus*, except Carrera & d'Andretta (1957), which followed Neave's *Nomenclator*, applying page precedence. As page precedence is not mandatory, I therefore act here as "first reviser", in the meaning of the code (articles 24a, i, and 32b), and propose that the correct spelling *Pantophthalmus* be kept to ensure stability of nomenclature).

*Megalomyia* Bigot, 1880: V. Type-species, *Acanthomera seticornis* Wiedemann (orig. des.) = *tabaninus* Thunberg.

Published under the auspices of the "Fundação de Amparo à Pesquisa do Estado de São Paulo."

30.1

DEPARTAMENTO DE ZOOLOGIA  
BIBLIOTECA  
Secretaria da Agricultura

*Megalemyia* Bigot, 1881:455 (*lapsus*).

*Meraca* Enderlein, 1934:181. Type-species, *Opetiops sigma* Enderlein (orig. des.) = *conspicuus* (Austen).

BELLARDII (Bigot), in Bellardi, 1862:16, pl. 3, fig. 11 (*Acanthomera*; nom. nov. for *picta* Bellardi). Type-locality: "Mexico". Distr. — Mexico, Guatemala, Nicaragua, Costa Rica, Panama, Colombia, Ecuador, Peru, Brazil.

*picta* Bellardi, 1859:76 (*Acanthomera*; preocc. Wiedemann, 1821). Type-locality: "Mexico".

*championi* Osten Sacken, 1886:67, pl. 3, fig. 16 (*Acanthomera*). Type-locality: Mexico; Nicaragua, Chontales; Panama, Bugaba.

*helleri* Enderlein, 1912:110, figs. 8-9. Type-locality: Bolivia, Yungas de Coroico; Peru, Chanchamayo.

*versicolor* Austen, 1923:572, fig. 4. Type-locality: Guatemala, Vera Paz, Pancina.

*latifrons* Enderlein, 1931:374. Type-locality: Peru, Chanchamayo.

CONSPICUUS Austen, 1923:581, figs. 6-7. Type-locality: British Honduras, Corozal. Distr. — British Honduras, British Guiana, Brazil (Amazonia).

*sigma* Enderlein, 1931:372 (*Opetiops*). Type-locality: Peru, Juanjui.

HEYDENII (Wiedemann), 1828:555 (*Acanthomera*). Type-locality: "Brazil". Distr. — Venezuela, Bolivia, Brazil (from Pará to Santa Catarina). Ref. — Bondar, 1938:22 (biology).

*gigas* Enderlein, 1912:110, fig. 7. Type-locality: "South America".

LEUCKARTI Enderlein, 1912:113, figs. 1, 10. Type-locality: Brazil, Amazonas, Tefé. Distr. — Brazil (Amazonas).

TABANINUS Thunberg, 1819:7, pl. 7, fig. 2. Type-locality: St. Barthélemy, West Indies. Distr. — Mexico, Guatemala, Nicaragua, West Indies, Trinidad, Panama, Guianas, Venezuela, Peru, Bolivia, Brazil (from Amazonas to Santa Catarina). Refs. — Greene & Urich, 1931 (biology); Thorpe, 1934 (morphology, biology).

*seticornis* Wiedemann, 1828:108, pl. 2, fig. 1a (*Acanthomera*). Type-locality: "Brazil".

*immanis* Wiedemann, 1830:623 (*Acanthomera*). Type-locality: "Surinam".

*rubriventris* Bigot, 1880: V (*Acanthomera*). Type-locality: "Guatemala".

*comptus* Enderlein, 1912:117. Type-locality: "South America".

*fastuosus* Knab, 1914:27. Type-locality: Trinidad; French Guiana, St. Jean; Panama, Canal Zone, Ancon.

VITTATUS (Wiedemann), 1828:109, pl. 2, fig. 2 (*Acanthomera*). Type-locality: "Brazil". Distr. — Guianas, Bolivia, Brazil (Amazonas, Bahia, Mato Grosso, Minas Gerais). Ref. — Bondar, 1938:20 (biology).

*servillei* Guérin-Méneville, 1835:543, pl. 98, figs. 2, 2a-c (*Acanthomera*). Type-locality: "Brazil".

*fulvida* Bigot, 1880: V (*Acanthomera*). Type-locality: "Guiana".

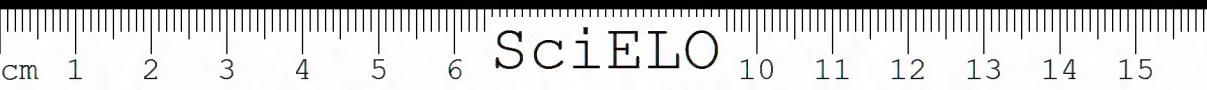


## Genus OPETIOPS Enderlein

- OPETIOPS Enderlein, 1921:231. Type-species, *Pantophthalmus alienus* Hermann (orig. des.).
- ALIENUS (Hermann), 1916:43, figs. 1-2 (*Pantophthalmus*). Type-locality: Brazil, Santa Catarina, Kolonie Hansa. Distr. — Colombia, Brazil (Santa Catarina), Paraguay.
- BATESI (Austen), 1923:566, fig. 2 (*Pantophthalmus*). Type-locality: Brazil, Amazonas, Vila Nova. Distr. — Brazil (Amazonas).

## Genus RHAPHIORHYNCHUS Wiedemann

- RHAPHIORHYNCHUS Wiedemann, 1821:59. Type-species, *planiventris* Wiedemann (mon.).
- Acanthomera* Wiedemann, 1821:60. Type-species, *picta* Wiedemann (mon.).
- Atopomia* Austen, 1923:596. Type-species, *Rhaphiorhynchus rothschildi* Austen (orig. des.).
- Lycops* Enderlein, 1931:367. Type-species, *zoos* Enderlein (orig. des.).
- ARGYROFASTUS (Bigot), 1880: V (*Megalomyia*). Type-locality: "Panama" Distr. — Panama.
- CHUNI (Enderlein), 1912:103, fig. 4 (*Acanthomera*). Type-locality: Peru, Chanchamayo. Distr. — Peru, Brazil (Amazonas).
- ENGELI (Enderlein), 1931:362 (*Acanthomera*). Type-locality: Panama, Chiriqui. Distr. — Panama (Chiriqui).
- FACETUS (Enderlein), 1931:363 (*Acanthomera*). Type-locality: Panama, Chiriqui. Distr. — Panama.
- FRAUENFELDI (Schiner), 1868:78 (*Acanthomera*). Type-locality: "Colombia". Distr. — Panama, Colombia, Ecuador, Peru, Bolivia.
- HELLERIANUS (Enderlein), 1914:578 (*Acanthomera*). Type-locality: Ecuador, Santa Inez. Distr. — Ecuador, Brazil (Amazonas).
- KERTESZIANUS (Enderlein), 1914:588 (*Acanthomera*). Type-locality: Peru, Juanjui. Distr. — Colombia, Peru, Bolivia, Brazil (Amazonas, Pará, Mato Grosso).
- conspicabilis* Austen, 1923:577, fig. 5 (*Pantophthalmus*). Type-locality: "Colombia".
- PICTUS (Wiedemann), 1821:61, pl. 2, fig. 2 (*Acanthomera*). Type-locality: "Brazil". Distr. — Brazil (from Rio de Janeiro to Rio Grande do Sul), Paraguay, Argentina. Refs. — Hempel, 1911:613 (biology), 1912:92 (biology); Navarro de Andrade, 1930:249 (biology); Costa Lima, 1936:370 (list of host-plants); Pinto da Fonseca, 1930:191 (biology); Fiebrig, 1906:316 (biology).
- flavipes* Macquart, 1847:26, pl. 1, fig. 2 (*Acanthomera*). Type-locality: "Brazil".
- magnifica* Walker, 1850:74, pl. 1, fig. 1 (*Acanthomera*). Type-locality: "South America".
- teretruncum* Fiebrig, 1906:245 (*Acanthomera*). Type-locality: "Paraguay".



- PLANIVENTRIS Wiedemann, 1821:60, pl. 2, fig. 1. Type-locality: "Brazil".  
Distr. — México, Guatemala, Nicaragua, Costa Rica, Panama, Surinam, British Guiana, Ecuador, Peru, Bolivia, Brazil (Amazonas, Acre, Pará, Goiás).
- crassipalpis* Macquart, 1847:27, pl. 1, fig. 3 (*Acanthomera*). Type-locality: "Guatemala".
- bigoti* Bellardi, 1862:16, pl. 3, fig. 10 (*Acanthomera*). Type-locality: Mexico, Oaxaca, Chinantla.
- PUNCTIGER (Enderlein), 1921:229 (*Acanthomera*). Type-locality: Brazil, Espírito Santo. Distr. — Brazil (from Espírito Santo to Paraná).
- variegatus* Austen, 1923:592, fig. 9 (*Pantophthalmus*). Type-locality: "Brazil".
- ROSENI (Enderlein), 1931:370, fig. 3 (*Atopomyia*). Type-locality: Panama, Chiriqui. Distr. — Panama (Chiriqui).
- ROTHSCHILDI Austen, 1909:129. Type-locality: Bolivia, Buenavista. Distr. — Panama, Colombia, Ecuador, Bolivia.
- var. *ocellata* Enderlein, 1931:370 (*Atopomyia*). Type-locality: Bolivia, Santa Cruz, Sara.
- SPLENDIDUS (Austen), 1923:589, fig. 8 (*Pantophthalmus*). Type-locality: Panama, Volcán de Chiriqui. Distr. — Panama (Chiriqui).
- SUBSIGNATUS (Enderlein), 1931:364, fig. 1 (*Acanthomera*). Type-locality: Panama, Chiriqui. Distr. — Panama (Chiriqui).
- ZOOS (Enderlein), 1931:367, fig. 2 (*Lycops*). Type-locality: Mexico, Oaxaca. Distr. — Mexico (Oaxaca).

#### LITERATURE CITED

AUSTEN, E.

1909. Two remarkable new species of Diptera. *Novit. Zool.*, Tring 16:129-131.
1923. A revision of the family Pantophthalmidae (Diptera) with descriptions of new species and a new genus. *Proc. zool. Soc. London* (1923):551-598, 11 figs.

BELLARDI, L.

1859. *Saggio di Ditterologia Messicana* 1:80 pp., 2 pls. Stamperia Reale, Torino.
1862. *Idem*, Append.: 28 pp., 1 pl.

BIGOT, J. M. F.

1880. [Description d'un genre nouveau et de nouvelles espèces d'Acanthomeridae Wiedemann]. *Ann. Soc. Ent. France* (5)10: V (Bull.).
1881. Diptères nouveaux ou peu connus. XXVIII. Acanthomeridae. *Ann. Soc. Ent. France* (6)1:453-460.

BONDAR, G.

1938. Notas entomológicas da Bahia. II. *Rev. Entom.*, Rio de Janeiro 8:20-22.



CARRERA, M. & M. A. V. D'ANDRETTA

1957. Sobre a família Pantophthalmidae. *Arq. Zool.*, São Paulo 10:253-330, 85 figs.

COSTA LIMA, A. M. DA

1936. *Terceiro catalogo dos insectos que vivem nas plantas do Brasil*, 460 pp., Ministério da Agricultura, Rio de Janeiro.

ENDERLEIN, G.

1912. 1. Dipterologische Studien. I. Die Dipterenfamilie Pantophthalmidae. *Zool. Anz.*, Leipzig 41:97-118, 15 figs.  
1914. Idem. XIII. Weitere Beiträge zur Kenntniss der Pantophthalmiden. *Ibidem* 44:577-586.  
1921. Idem. XVII. *Ibidem* 52:228-231.  
1931. Klassifikation der Pantophthalmiden. *Sitz. Ges. naturf. Freunde Berlin* (1930):361-376, 4 figs.  
1934. Dipterologica II. *Sitz. Ges. naturf. Freunde Berlin* (1934):181-190.

FIEBRIG, K.

1906. Eine morphologisch und biologisch interessante Dipterenlarve aus Paraguay (*Acanthomera teretruncum* sp. n. Fiebrig). *Zeitschr. wiss. Insektbiol.*, Berlin 2:316-323, 344-347, 19 figs.

GREENE, C. T. & F. W. URICH

1931. The immature stages of *Pantophthalmus tabaninus* Thunberg, with biological notes. *Trans. ent. Soc. London* 79:277-282, pls. 7-9.

GUÉRIN-MÉNEVILLE, M. F. E.

1835. *Iconographie du règne animal de G. Cuvier* 3:543-544. J. B. Baillière, Paris.

HEMPEL, A.

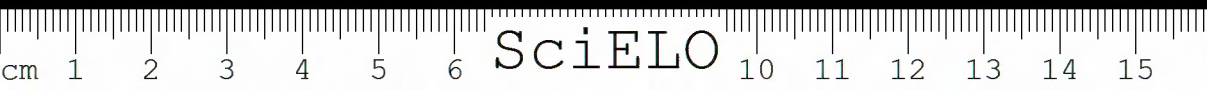
1911. Noticia preliminar sobre uma mosca destruidora da madeira. *Bol. Agric.*, São Paulo 8:613.  
1912. Nota sobre a biologia da mosca *Acanthomera picta*. *O Fazendeiro*, São Paulo 5:92-93.

HERMANN, F.

1916. Ein neuer *Pantophthalmus* nebst kritischen Bemerkungen über die Systematik der Pantophthalmiden (Dipt.). *Deutsche ent. Zeitschr.* (1916):43-49, 2 figs.

KNAB, F.

1914. A new *Pantophthalmus* (Diptera, Pantophthalmidae). *Ins. Insc. Menstruus*, Washington 2:27-29.



MACQUART, M. J.

1847. *Diptères exotiques, nouveaux ou peu connus*, suppl. 2:104 pp., 6 pls. Roret, Paris.

NAVARRO DE ANDRADE, E.

1930. Subsídios para a entomologia agricola brasileira. Pesquisas sobre a biologia da mosca da madeira. *Arch. Inst. Biol. São Paulo* 3:249-286.

NEAVE, S. A., ed.

1940. *Nomenclator zoologicus* 3:1065 pp. London.

OSTEN SACKEN, C. R.

1886. *Biologia Centrali-Americana, Diptera* 1:378 pp., 6 pls.

PINTO DA FONSECA, F.

1930. A mosca da madeira, *Pantophthalmus pictus*. *O Biológico, São Paulo* 16:191-197.

SCHINER, J. R.

1868. *Reise der österreichischen Fregatte Novara um die Erde*, Zool. Theil, Diptera: 388 pp., 4 pls. K. K. Hof — und Staatsdruckerei, Wien.

THORPE, W. H.

1934. Observations on the structure, biology and systematic position of *Pantophthalmus tabaninus* Thunb. (Diptera, Pantophthalmidae). *Trans. ent. Soc. London* 82:5-22.

THUNBERG, C. P.

1819. Beskrifning på en ny Insect, *Pantophthalmus tabaninus*. *Götteborgs Kongl. Vettensk. och Vitterhets Samhällets Handlingar* 3:7.

WALKER, F.

1850. *Insecta Saundersiana, or characters of undescribed insects in the collection of William Wilson Saunders, Esq.* 1:75 pp., 2 pls. John van Voorst, London.

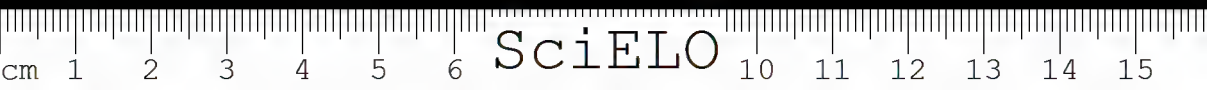
WIEDEMANN, C. R. W.

1821. *Diptera exotica*: 244 pp., 1 fig., 2 pls. Kilias.  
1828. *Aussereuropäische zweiflügelige Insecten* 1:608 pp., 6 pls., Schulzichen Buchhandlung, Hamm.  
1830. *Idem* 2:684 pp., pls. 7-10.

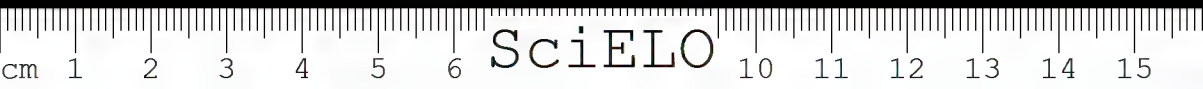


# INDEX

|  |      |
|--|------|
| <i>Acanthomera</i> Wiedemann, 1821 .....   | 30.3 |
| <i>alienus</i> (Hermann), 1916 (Pantophthalmus), Opetiops .....  | 30.3 |
| <i>argyropastus</i> (Bigot), 1880 (Megalomyia), Rhaphiorhynchus .....                                  | 30.3 |
| <i>Atopomyia</i> Austen, 1923 .....  | 30.3 |
| <i>batesi</i> (Austen), 1923 (Pantophthalmus), Opetiops .....  | 30.3 |
| <i>bellardii</i> (Bigot), 1862 (Acanthomera), Pantophthalmus .....                                     | 30.2 |
| <i>bigoti</i> (Bellardi), 1862 (Acanthomera), Rhaphiorhynchus .....                                    | 30.4 |
| <i>championi</i> (Osten Sacken), 1886 (Acanthomera), Pantophthalmus .....                              | 30.2 |
| <i>chuni</i> (Enderlein), 1912 (Acanthomera), Rhaphiorhynchus .....                                    | 30.3 |
| <i>comptus</i> Enderlein, 1912, Pantophthalmus .....   | 30.2 |
| <i>conspicabilis</i> (Austen), 1923 (Pantophthalmus), Rhaphiorhynchus .....                            | 30.3 |
| <i>conspicuus</i> Austen, 1923, Pantophthalmus .....   | 30.2 |
| <i>crassipalpis</i> (Macquart), 1847 (Acanthomera), Rhaphiorhynchus ..                                 | 30.4 |
| <i>engeli</i> (Enderlein), 1931 (Acanthomera), Rhaphiorhynchus .....                                   | 30.3 |
| <i>facetus</i> (Enderlein), 1931 (Acanthomera), Rhaphiorhynchus ....                                   | 30.3 |
| <i>fastuosus</i> Knab, 1914, Pantophthalmus .....  | 30.2 |
| <i>flavipes</i> (Macquart), 1847 (Acanthomera), Rhaphiorhynchus ....                                   | 30.3 |
| <i>frauenfeldi</i> (Schiner), 1868 (Acanthomera), Rhaphiorhynchus ...                                  | 30.3 |
| <i>fulvida</i> (Bigot), 1880 (Acanthomera), Pantophthalmus .....                                       | 30.2 |
| <i>gigas</i> (Enderlein), 1912 (Acanthomera), Pantophthalmus .....                                     | 30.2 |
| <i>helleri</i> Enderlein, 1912, Pantophthalmus .....   | 30.2 |
| <i>hellerianus</i> (Enderlein), 1914 (Acanthomera), Rhaphiorhynchus...                                 | 30.3 |
| <i>heydenii</i> (Wiedemann), 1828 (Acanthomera), Pantophthalmus ....                                   | 30.2 |
| <i>immanis</i> (Wiedemann), 1830 (Acanthomera), Pantophthalmus ....                                    | 30.2 |
| <i>kerteszi</i> (Enderlein), 1914 (Acanthomera), Rhaphiorhynchus ..                                    | 30.3 |
| <i>latifrons</i> Enderlein, 1931, Pantophthalmus .....   | 30.2 |
| <i>leuckarti</i> Enderlein, 1912, Pantophthalmus .....   | 30.2 |
| <i>Lycops</i> Enderlein, 1931 .....  | 30.3 |
| <i>magnifica</i> (Walker), 1850 (Acanthomera), Rhaphiorhynchus ....                                    | 30.3 |
| <i>Megalemyia</i> , lapsus .....   | 30.2 |
| <i>Megalomyia</i> Bigot, 1880 .....  | 30.1 |
| <i>Meraca</i> Enderlein, 1934 .....  | 30.2 |
| <i>ocellata</i> (Enderlein), 1931 (Atopomyia), Rhaphiorhynchus, variety of<br><i>rothschildi</i> ..... | 30.4 |
| <i>Opetiops</i> Enderlein, 1921 .....  | 30.3 |
| <i>Pantophthalmus</i> Thunberg, 1819 .....   | 30.1 |
| <i>picta</i> (Bellardi), 1859 (Acanthomera), Pantophthalmus .....                                      | 30.2 |
| <i>pictus</i> (Wiedemann), 1821 (Acanthomera), Rhaphiorhynchus .....                                   | 30.3 |
| <i>planiventris</i> Wiedemann, 1821, Rhaphiorhynchus .....   | 30.4 |
| <i>punctiger</i> (Enderlein), 1921 (Acanthomera), Rhaphiorhynchus ....                                 | 30.4 |



|   |      |
|---|------|
| <i>Rhaphiorhynchus</i> Wiedemann, 1821 .....  | 30.3 |
| <i>roseni</i> (Enderlein), 1931 ( <i>Atopomyia</i> ), <i>Rhaphiorhynchus</i> .....            | 30.4 |
| <i>rothschildi</i> Austen, 1909, <i>Rhaphiorhynchus</i> .....                                 | 30.4 |
| <i>rubriventris</i> (Bigot), 1880 ( <i>Acanthomera</i> ) <i>Pantophthalmus</i> .....          | 30.2 |
| <i>servillei</i> (Guérin-Méneville), 1835 ( <i>Acanthomera</i> ), <i>Pantophthalmus</i> ..... | 30.2 |
| <i>seticornis</i> (Wiedemann), 1828 ( <i>Acanthomera</i> ), <i>Pantophthalmus</i> ...         | 30.2 |
| <i>sigma</i> (Enderlein), 1931 ( <i>Opetiops</i> ), <i>Pantophthalmus</i> .....               | 30.2 |
| <i>splendidus</i> (Austen), 1923 ( <i>Pantophthalmus</i> ), <i>Rhaphiorhynchus</i> ...        | 30.4 |
| <i>subsignatus</i> (Enderlein), 1931 ( <i>Acanthomera</i> ), <i>Rhaphiorhynchus</i> ..        | 30.4 |
| <i>tabaninus</i> Thunberg, 1819, <i>Pantophthalmus</i> .....                                  | 30.2 |
| <i>teretruncum</i> (Fiebrig), 1906 ( <i>Acanthomera</i> ), <i>Rhaphiorhynchus</i> ...         | 30.3 |
| <i>variegatus</i> (Austen), 1923 ( <i>Pantophthalmus</i> ), <i>Rhaphiorhynchus</i> ...        | 30.4 |
| <i>versicolor</i> Austen, 1923, <i>Pantophthalmus</i> .....                                   | 30.2 |
| <i>vittatus</i> (Wiedemann), 1828 ( <i>Acanthomera</i> ), <i>Pantophthalmus</i> ....          | 30.2 |
| <i>zoos</i> (Enderlein), 1931 ( <i>Lycops</i> ), <i>Rhaphiorhynchus</i> .....                 | 30.4 |





DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

32

FAMILY SCENOPINIDAE \*  
(OMPHRALIDAE)

D. ELMO HARDY

*Senior Professor and Chairman  
Department of Entomology  
University of Hawaii  
Honolulu, Hawaii*

This family is poorly known in the Neotropical Region and no information is available on the habits of the species which occur there. These flies are apparently predators in the larval stages and prey upon a variety of insects, especially household pests, pests of stored foods, bark beetles and powder post beetles.

This is a small family, approximately 100 species are known for the world, only 16 have been recorded from the Neotropical Region; these are arranged in five genera.

Refs. — Kröber, 1937 (rev.); Hardy, 1944 (rev.).

## Genus BREVITRICHIA Hardy

BREVITRICHIA Hardy, 1944:32. Type-species, *Pseudatrichia griseola* Coquillett (orig. des.).

INSULANA (Cole), 1923:462 (*Pseudatrichia*). Type-locality: Mexico, Gulf of California, Isla Raza. Distr. — Mexico.

## Genus CEROCATUS Rondani

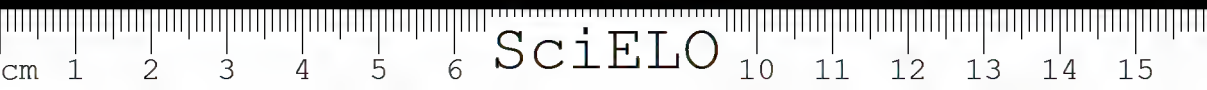
CEROCATUS Rondani, 1848:99. Type-species, *tarsalis* Rondani (mon.).

TARSALIS Rondani, 1848:99. Type-locality: "Brazil". Distr. — Brazil.

## Genus HETEROMPHRALE Kröber

HETEROMPHRALE Kröber, 1937:213. Type-species, *Pseudatrichia chilensis* Kröber (orig. des.).

\* Published with the approval of the Director of the Hawaii Agricultural Experiment Station as Miscellaneous Paper No. 187.



CHILENSIS (Kröber), 1928a:31, figs. 1a-c. (*Pseudatrichia*). Type-locality: Chile, Concepción. Distr. — Chile.

#### Genus METATRICHIA Coquillett

METATRICHIA Coquillett, 1900:500. Type-species, *Scenopinus bulbosus* Osten Sacken (orig. des.).

ROBUSTA Kröber, 1913:180, pl. VIII, figs. 2, 3; pl. X, fig. 43. Type-locality: "Paraguay". Distr. — Paraguay.

#### Genus PSEUDATRICHIA Osten Sacken

*Atrichia* Schrank of Loew, 1866:42 (Cent. 7, no. 76).

PSEUDATRICHIA Osten Sacken, 1877:276. Type-species, *Atrichia longurio* Loew (mon.).

LONGURIO (Loew), 1866:42 (*Atrichia*). Type-locality: "Mexico". Distr. — Mexico.

#### Genus PSEUDOMPHRALE Kröber

PSEUDOMPHRALE Kröber, 1913:180. Type-species, *Scenopinus clausus* Loew (orig. des.).

CYANOPS Edwards, 1932:259, fig. 22. Type-locality: Uruguay, Montevideo. Distr. — Uruguay.

#### Genus SCENOPINUS Latreille

*Omphrale* Meigen, 1800:29. Type-species, *Musca senilis* Fabricius (sub. mon.; Hendel, 1908:58) = *fenestralis* (Linnaeus). Suppressed by I.C.Z.N., 1963:339.

SCENOPINUS Latreille, 1802:463. Type-species, *Musca fenestralis* Linnaeus (mon.).

*Scenopeus* Agassiz, 1846:333 (emend.).

*Scaenopius* Dalla Torre, 1878:161 (lapsus).

*Atrichia* Schrank, 1803:54. Type-species, *Musca fenestralis* Linnaeus (mon.).

*Cona* Schellenberg, 1803:66. Type-species, *Musca fenestralis* Linnaeus (mon.).

*Hypselura* Meigen, 1803:273. Type-species, *Musca fenestralis* Linnaeus (as *senilis* Fabricius) (mon.).

*Astoma* Liroy, 1864:762. Type-species, *Nemotelus niger* De Geer (orig. des.).

ALBIDIPENNIS Loew, 1869:32. Type-locality: "Cuba". Distr. — Cuba. Refs. — Kröber, 1913:204; 1937:224 (key).

CAENOPHRONS (Kröber), 1937:229, fig. 1 (*Omphrale*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil. Ref. — Kröber, 1937:224 (key).



CHILENSIS (Kröber), 1928a:31, figs. 1a-c. (*Pseudatrichia*). Type-locality: Chile, Concepción. Distr. — Chile.

#### Genus METATRICHIA Coquillett

METATRICHIA Coquillett, 1900:500. Type-species, *Scenopinus bulbosus* Osten Sacken (orig. des.).

ROBUSTA Kröber, 1913:180, pl. VIII, figs. 2, 3; pl. X, fig. 43. Type-locality: "Paraguay". Distr. — Paraguay.

#### Genus PSEUDATRICHIA Osten Sacken

*Atrichia* Schrank of Loew, 1866:42 (Cent. 7, no. 76).

PSEUDATRICHIA Osten Sacken, 1877:276. Type-species, *Atrichia longurio* Loew (mon.).

LONGURIO (Loew), 1866:42 (*Atrichia*). Type-locality: "Mexico". Distr. — Mexico.

#### Genus PSEUDOMPHRALE Kröber

PSEUDOMPHRALE Kröber, 1913:180. Type-species, *Scenopinus clausus* Loew (orig. des.).

CYANOPS Edwards, 1932:259, fig. 22. Type-locality: Uruguay, Montevideo. Distr. — Uruguay.

#### Genus SCENOPINUS Latreille

*Omphrale* Meigen, 1800:29. Type-species, *Musca senilis* Fabricius (sub. mon.; Hendel, 1908:58) = *fenestralis* (Linnaeus). Suppressed by I.C.Z.N., 1963:339.

SCENOPINUS Latreille, 1802:463. Type-species, *Musca fenestralis* Linnaeus (mon.).

*Scenopeus* Agassiz, 1846:333 (emend.).

*Scaenopius* Dalla Torre, 1878:161 (lapsus).

*Atrichia* Schrank, 1803:54. Type-species, *Musca fenestralis* Linnaeus (mon.).

*Cona* Schellenberg, 1803:66. Type-species, *Musca fenestralis* Linnaeus (mon.).

*Hypselura* Meigen, 1803:273. Type-species, *Musca fenestralis* Linnaeus (as *senilis* Fabricius) (mon.).

*Astoma* Liroy, 1864:762. Type-species, *Nemotelus niger* De Geer (orig. des.).

ALBIDIPENNIS Loew, 1869:32. Type-locality: "Cuba". Distr. — Cuba. Refs. — Kröber, 1913:204; 1937:224 (key).

CAENOPHRONS (Kröber), 1937:229, fig. 1 (*Omphrale*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil. Ref. — Kröber, 1937:224 (key).

- CURTICORNIS (Kröber), 1913:202, pl. VIII, fig. 11; pl. XI, fig. 45 (*Omphrale*). Type-locality: "Brazil". Distr. — Brazil. Ref. — Kröber, 1937:224 (key).
- FEMORATUS Macquart, 1835:7. Type-locality: "Brazil". Distr. — Brazil. Ref. — Kröber, 1913:205.
- MAGNICORNIS (Kröber), 1913:202, pl. 9, figs. 24, 25; pl. 11, fig. 63 (*Omphrale*). Type-locality: "Amerika" (listed in key to species of Middle and South America). Distr. — "Sudamerika". Ref. — Kröber, 1937:224 (key).
- NUBILIPES Say, 1829:170. Type-locality: U.S.A., Indiana. Distr. — Central and southeastern U.S.A., Costa Rica, Cuba. Refs. — Kröber, 1928b:2; 1937:224 (key).
- PYGMAEUS Loew, 1857:90. Type-locality: "Surinam". Distr. — Surinam. Refs. — Kröber, 1913:203, pl. VIII, fig. 13; pl. XI, fig. 57; 1937:224 (key).
- SCHROEDERI (Kröber), 1913:201 (*Omphrale*). Type-locality "Costa Rica". Distr. — Costa Rica. Ref. — Kröber, 1937:224 (key).
- SCHULZEI Enderlein, 1933:429. Type-locality: "Brazil". Distr. — Brazil. Ref. — Kröber, 1937:224 (key).
- VELUTINUS (Kröber), 1913:203, pl. VIII, fig. 12; pl. XI, fig. 66 (*Omphrale*). Type-locality: "Costa Rica". Distr. — Costa Rica. Ref. — Kröber, 1937:224 (key).

#### LITERATURE CITED

AGASSIZ, L.

1846. *Nomenclator Zoologicus* 4:1-393. Soloduri.

COLE, F. R.

1923. Expedition of the California Academy of Science to the Gulf of California in 1921. Diptera from the islands and adjacent shores of the Gulf of California. II. General report. *Proc. Calif. Acad. Sci.* 12:457-481.

COQUILLETT, D. W.

1900. New Scenopinidae from the United States. *Ent. News* 11:500-501.

DALLA TORRE, K. W. VON

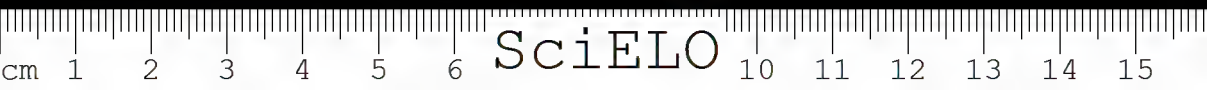
1878. Beiträge zur Phyto- und Zoostatik des Egerlandes. *Lotus* 27(1877):7-208.

EDWARDS, F. W.

1932. Scenopinidae, pp. 258-260. *Diptera of Patagonia and South Chile*, Part V, fasc. 3. British Museum (Natural History).

ENDERLEIN, G.

1933. Dipterologica. I. *Sitzber. Ges. Naturf. Fr. Berlin* (1933):429.





HARDY, D. E.

1944. A revision of North American Omphralidae (Scenopinidae).  
*Journ. Kansas Ent. Soc.* 17(1-2):31-51.

HENDEL, F.

1908. J. G. Meigen: Nouvelle classification des mouches à deux ailes (Diptera L.). *Verh. zool.-bot. Ges. Wien* 58:43-69.

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

1963. Opinion 678. The suppression under the Plenary Powers of the pamphlet published by Meigen, 1800. *Bull. Zool. Nomencl.* 20:339.

KRÜBER, O.

1913. Die Omphraliden. Eine monographische Studie. *Ann. Mus. Nat. Hungarici* 11:174-210.  
1928a. Neue Dipteren des Deutschen Entomologischen Museums in Dahlem. *Ent. Mitt.*, Berlin 17:31-32.  
1928b. Neue und wenig bekannte Dipteren aus den Familien Omphralidae, Conopidae und Therevidae. *Konowia* 7:2-3.  
1937. Ein Beitrag zur Kenntniss der Omphraliden (Scenopiniden), Diptera. *Stett. Ent. Ztg.* 98:211-231.

LATREILLE, P. A.

1802. *Histoire naturelle, générale et particulière des Crustacés et des Insectes* 3:1-468. Paris.

LIOY, P.

1864. I Ditteri distribuiti secondo un nuovo metodo di classificazione naturale. *Atti dell'Istituto Veneto* (3)9:762.

LOEW, H.

1857. Die bis jetzt bekanntgewordenen Arten der Gattung *Scenopinus*. *Verh. zool.-bot. Ges. Wien* 7:87-90.  
1866. *Diptera Americae septentrionalis indigena*. Centuria septima. *Berl. Ent. Zeitschr.* 10:1-54.  
1869. *Diptera Americae septentrionalis indigena*. *Berl. Ent. Zeitschr.* 13:32.

MACQUART, J.

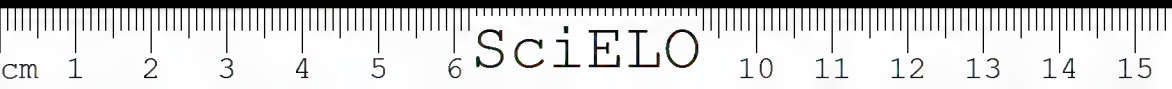
1835. *Histoire Naturelle des Insectes Diptères* 2:7. Paris.

MEIGEN, J. G. [W.]

1800. *Nouvelle classification des mouches à deux ailes (Diptera L.)*, d'après un plan tout nouveau, 40 pp., Paris.

OSTEN SACKEN, C. R.

1877. Western Diptera. Descriptions of new genera and species of Diptera from the region west of the Mississippi and especially from California. *U.S. Geol. Survey Bull.* 3:189-354.



RONDANI, C.

1848. Ditteri Brasiliani, in Baudi & Truqui: *Studi Entomologici* 1:99.

SAY, T.

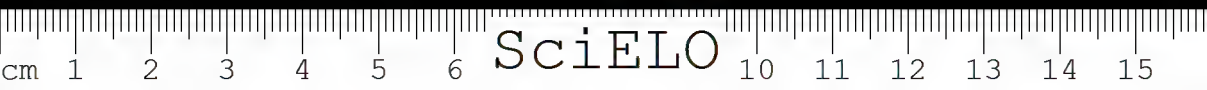
1829. Descriptions of North American dipterous insects. *Proc. Acad. Nat. Sci. Philad.* 6:149-178.

SCHRANK, F. VON P.

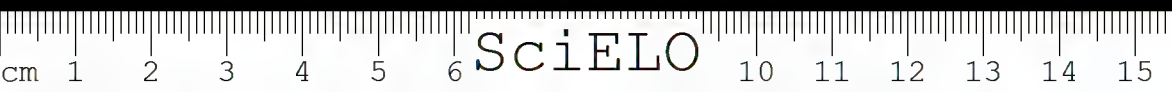
1803. *Fauna Boica. Durchgedachte Geschichte der in Baiern einheimischen und zahmen Thiere* 3(1):54. Landshut.

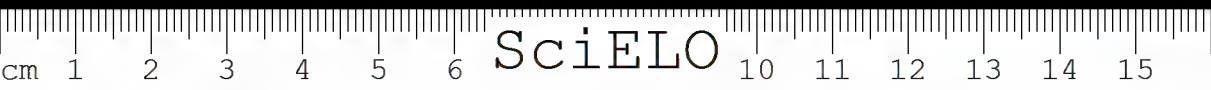
# INDEX

|   |      |
|---|------|
| albidipennis Loew, 1869, Scenopinus .....                     | 32.2 |
| Astoma Lioy, 1864 .....                                       | 32.2 |
| Atrichia Schrank, 1803 .....                                  | 32.2 |
| Brevitrichia Hardy, 1944 .....                                | 32.1 |
| caenofrons (Kröber), 1937 (Omphrale), Scenopinus .....        | 32.2 |
| Cerocatus Rondani, 1848 .....                                 | 32.1 |
| chilensis (Kröber), 1928 (Pseudatrichia), Heteromphrale ..... | 32.2 |
| Cona Schellenberg, 1803 .....                                 | 32.2 |
| curticornis (Kröber), 1913 (Omphrale), Scenopinus .....       | 32.3 |
| cyanops Edwards, 1932, Pseudomphrale .....                    | 32.2 |
| femoratus Macquart, 1835, Scenopinus .....                    | 32.3 |
| Heteromphrale Kröber, 1937 .....                              | 32.1 |
| Hypselura Meigen, 1803 .....                                  | 32.2 |
| insulana (Cole), 1923 (Pseudatrichia), Brevitrichia .....     | 32.1 |
| longurio (Loew), 1866 (Atrichia), Pseudatrichia .....         | 32.2 |
| magnicornis (Kröber), 1913 (Omphrale), Scenopinus .....       | 32.3 |
| Metatrichia Coquillett, 1900 .....                            | 32.2 |
| nubilipes Say, 1829, Scenopinus .....                         | 32.3 |
| Omphrale Meigen, 1800 .....                                   | 32.2 |
| Pseudatrichia Osten Sacken, 1877 .....                        | 32.2 |
| Pseudomphrale Kröber, 1913 .....                              | 32.2 |
| pygmaeus Loew, 1857, Scenopinus .....                         | 32.3 |
| robusta Kröber, 1913, Metatrichia .....                       | 32.2 |
| Scenopinus Latreille, 1802 .....                              | 32.2 |
| Scaenopius Dalla Torre, 1878 (lapsus) .....                   | 32.2 |
| Scenopeus Agassiz, 1846 (emend.) .....                        | 32.2 |
| schroederi (Kröber), 1913 (Omphrale), Scenopinus .....        | 32.3 |
| schulzei Enderlein, 1933, Scenopinus .....                    | 32.3 |
| tarsalis Rondani, 1848, Cerocatus .....                       | 32.1 |
| velutinus (Kröber), 1913 (Omphrale), Scenopinus .....         | 32.3 |

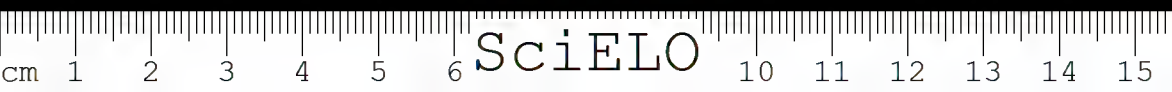












MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

33

FAMILY APIOCERIDAE  
(APIOCERATIDAE)

NELSON BERNARDI

*Museu de Zoologia, Universidade de São Paulo*

This small family of brachycerous flies comprises about 120 recognized species, distributed among five genera: *Apiocera* Westwood (North America, Chile, South Africa, Australia, Borneo, and Ceylon), *Rhaphiomidas* Osten Sacken (sw. U.S.A., Mexico), *Megascelus* Philippi (Chile), *Neorhaphiomidas* Norris (Western Australia), and *Tongamyia* Stuckenberg (South Africa). The first two genera make up the subfamily Apiocerinae, and the last three the subfamily Megascelinae, according to the classification proposed by Cazier (1941). The history of the studies of the family, together with the distribution, discussion of morphology and phylogenetic relationships, and a revision of the North American species (some of which are included in this catalogue), may be also found in Cazier (1941). Pertinent comments and information may be found in Paramonov (1953) and Stuckenberg (1966). The Chilean fauna was revised by Artigas (1970), with notes on location of the Chilean types.

Data on apiocerid bionomics are meager, but excellent published information exists for the Australian *Apiocera maritima* by English (1947), for the North American *Apiocera painteri* by Cazier (1963), and for the South African *Tongamyia miranda* by Irwin & Stuckenberg (1972).

Three genera and sixteen species are catalogued here; it may be possible that some other North American species of *Apiocera* will be recorded from Mexico in the future.

Subfamily APIOCERINAE

Genus APIOCERA Westwood

APIOCERA Westwood, 1835:448. Type-species, *Apiocera fuscicollis* Westwood (Coquillett, 1910:508) = *brevicornis* (Wiedemann) (Australian).

*Tapinocera* Macquart, 1838:78 (1839:194), pl. 6, fig. 5 (head of type-species). Type-species, *Laphria brevicornis* Wiedemann (orig. des.) (Australian).

- Pomacera* Macquart, 1847:63 (1847:47), pl. 2, figs. 1 (male, habitus), 1a (head), 1b-c (antenna), 1d (palpus). Type-species, *bigotii* Macquart (orig. des.) (Tasmanian).
- Anypenus* Philippi, 1865:702. Type-species, *brevicornis* Philippi (Brèthes, 1924?) = *philippii* Brèthes (Chilean; synonymy according to Cazier, 1941).
- Ripidosyrma* Hermann, 1909:104, figs. 1 (antenna), 2 (wing), pl., figs. 1 (male, habitus), 2 (male genitalia), 3 (abdomen). Type-species, *Apiocera braunsi* Melander (orig. des.) (South African). Refs. — Cazier, 1941:598 (key), 599, figs. 1-2 (distribution); 1954:1f; Artigas, 1970:101.
- AUGUR Osten Sacken, 1887:212. Type-locality: "Mexico, Presidio (Forrer)" = Mexico, Sinaloa, Mazatlán (Selander & Vaurie, 1962:47). Distr. — U.S.A. (New Mexico, Texas), Mexico (Chihuahua, Sinaloa). Refs. — Painter, 1932:354, figs. 1 (male), 2 (female); 1938:192, pl. 8 (male genitalia); Cazier, 1941:615, pl. 3, fig. 5 (male), pl. 4, fig. 12 (male genitalia); 1963:229.
- auger* Painter, 1938:192, misspelling.
- AURELIA Artigas, 1970:102, figs. 16 (abdomen), 26, 28, 30 (male genitalia), 38 (distr.). Type-locality: Chile, Coquimbo, La Serena, Lomas de Peñuelas. Distr. — Chile (Coquimbo).
- BILINEATA Painter, 1932:351, figs. 3 (male), 4 (female). Type-locality: U.S.A., New Mexico, Otero Co., White Sands. Distr. — U.S.A. (Arizona, New Mexico, Texas), Mexico (Chihuahua). Refs. — Painter, 1938:191, pl. 8 (male genitalia); Cazier, 1941:613, pl. 4, fig. 13 (male genitalia); 1963:209, 228.
- MEXICANA Cazier, 1954:8. Type-locality: Mexico, Veracruz, Veracruz. Distr. — U.S.A. (Texas), Mexico (Guerrero, Veracruz). Ref. — Cazier, 1963:209, 227.
- MONTICOLA Artigas, 1970:104, figs. 19 (abdomen), 27, 29, 31 (male genitalia), 38 (distr.). Type-locality: Chile, Santiago, El Melocotón, Río Maipo, orilla del río, 1024 m. Distr. — Chile (Santiago).
- NOTATA Painter, 1938:199, text-figs. 1 (male genitalia), pl. 8 (male genitalia). Type-locality: U.S.A., California, San Diego Co., Campo. Distr. — U.S.A. (California), Mexico (Baja California). Refs. — Cazier, 1941:614, pl. 4, fig. 11 (male genitalia); 1963:233.
- OBSCURA (Philippi), 1865:703 (*Anypenus*). Type-locality: unknown. Distr. — Chile (O'Higgins, Talca, Concepción). Ref. — Artigas, 1970:105, figs. 11 (spermatheca), 17 (abdomen), 20-25 (male genitalia), 38 (distr.).
- PHILIPPII Brèthes, 1924:28 (nom. nov. for *brevicornis* Philippi). Type-locality: Chile, Santiago Prov. Distr. — Chile (Coquimbo, Valparaíso, Santiago, O'Higgins, Linares, Ñuble). Ref. — Artigas, 1970:107, figs. 1-3 (male genitalia), 4 (thorax), 5 (spermatheca), 6 (wing), 7-9 (male genitalia), 12, 15 (head), 18 (abdomen), 38 (distr.).
- brevicornis* Philippi, 1865:702, pl. 25, figs. 26 (male), 26a (head) (*Anypenus*; preocc. Wiedemann, 1830). Type-locality: Chile, Santiago Prov.
- SONORAE Cazier, 1954:7. Type-locality: Mexico, Sonora, Sonoyta. Distr. — Mexico (Sonora). Ref. — Cazier, 1963:209.



# Genus RHAPHIOMIDAS Osten Sacken

RHAPHIOMIDAS Osten Sacken, 1877:281. Type-species, *episcopus* Osten Sacken (mon.).

*Raphiomidas*, misspelling.

*Apomidas* Coquillett, 1892:315. Type-species, *trochilus* Coquillett (mon.) (California). Refs. — Cazier, 1941:598 (key), 616, figs. 1-2 (distr.); 1954:3 (key).

EPISCOPUS Osten Sacken, 1877:282. Type-locality: U.S.A., California (but probably Mexico, Baja California, according to Cazier, 1941:619). Distr. — U.S.A. (California), Mexico (Baja California). Refs. — Cazier, 1941:618, pl. 2, fig. 19 (male); 1954:4.

BREVIROSTRIS Cazier, 1954:5. Type-locality: Mexico, Sonora, La Choya. Distr. — Mexico (Sonora).

## Subfamily MEGASCELINAE

### Genus MEGASCELUS Philippi

MEGASCELUS Philippi, 1865:683. Type-species, *nigricornis* Philippi (mon.). Refs. — Cazier, 1941:598 (key), fig. 1 (distr.); Paramonov, 1948; Carrera & d'Andretta, 1948:494; Artigas, 1970:110; 1973:140 (key).

ALBOVILLOSUS Artigas, 1973:140, figs. 1 (head), 2-5, 7 (male genitalia), 6 (ovipositor). Type-locality: Chile, Coquimbo, Fray Jorge National Park. Distr. — Chile (Coquimbo).

MELANOPROCTUS Artigas, 1970:111, fig. 38 (distr.). Type-locality: Chile, Valparaíso, Perales, Subida de la Ermita. Distr. — Chile (Valparaíso).

NIGRICORNIS Philippi, 1865:683, pl. 25, figs. 21 (habitus), 21a (head), 21b (wing). Type-locality: unknown. Distr. — Chile (Valparaíso, Santiago, Curicó, Linares, Malleco, Cautín). Refs. — Cazier, 1941: pl. 1, fig. 8 (wing); Carrera & d'Andretta, 1948:495, figs. 7 (antenna), 8 (leg), 9 (female genitalia), 11 (wing); Artigas, 1970:112, figs. 10 (wing), 13-14 (head), 32-34, 36 (male genitalia), 35 (ovipositor), 37 (spermatheca), 38 (distr.).

NIGROVILLOSUS Artigas, 1970:114, fig. 38 (distr.). Type-locality: Chile, Valparaíso, Marga. Distr. — Chile (Valparaíso).

PALMICOLA Artigas, 1970:115, fig. 38 (distr.). Type-locality: Chile, O'Higgins, Las Palmas, Cocalán. Distr. — Chile (O'Higgins).

## LITERATURE CITED

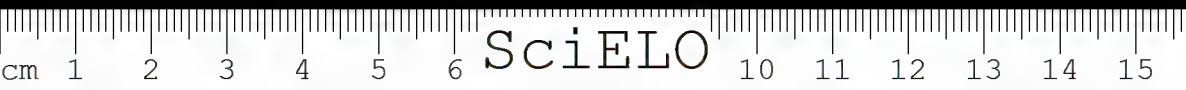
ARTIGAS C., J. N.

1970. Los apioceratidos de Chile con la description de cinco nuevas especies (Diptera — Apioceratidae). *Bol. Soc. Biol. Concepción* 42:97-122, 38 figs.

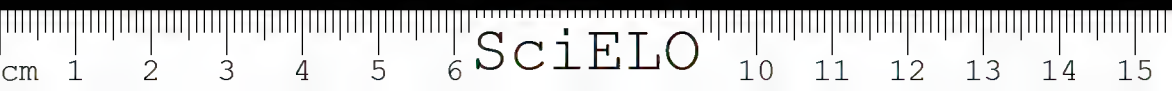
1973. *Megascelus albovillosus* nueva especie de apioceratido de Chile y clave para la determinacion de las especies del genero (Diptera-Apioceratidae). *Bol. Soc. Biol. Concepción* 46:139-144, 7 figs.

BRÈTHES, J.

1924. Sur quelques diptères chiliens. *Rev. Chil. Hist. Nat.* 28:104-111.



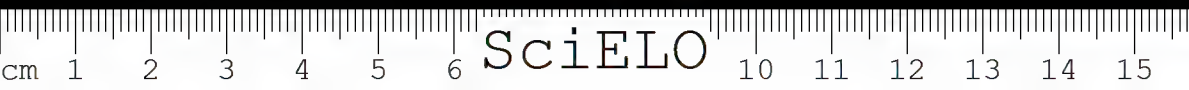
- CARRERA, M. & M. A. V. D'ANDRETTA  
 1948. Descrição de um novo gênero de Mydaiidae do Chile e redescritção do gênero *Megascelus* (Apioceratidae) (Diptera). *Rev. Ent.*, Rio de Janeiro 19:489-497, 11 figs.
- CAZIER, M. A.  
 1941. A generic review of the family Apioceratidae with a revision of the North American species (Diptera-Brachycera). *Amer. Midland Nat.* 25:589-631, 2 figs., 4 pls.  
 1954. New species and notes on flies belonging to the genera *Rhaphiomidas* and *Apiocera* (Diptera, Apioceratidae). *Amer. Mus. Nov.* 1696:1-10.  
 1963. The description and binomics of a new species of *Apiocera*, with notes on other species (Diptera: Apioceridae). *Wasman Jour. Biol.* 21:205-234, 6 figs.
- COQUILLET, D. W.  
 1892. A new genus of Diptera allied to *Rhaphiomidas*. *Canad. Ent.* 24:314-315.  
 1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.
- ENGLISH, K. M. I.  
 1947. Notes on the morphology and biology of *Apiocera maritima* Hardy (Diptera, Apioceridae). *Proc. Linn. Soc. N. S. Wales* 71:296-302, 13 figs.
- HERMANN, F.  
 1909. Beitrag zur Kenntnis der Apioceriden. *Deutsche ent. Ztschr.* 1909(2):104-122, 10 figs., 1 pl.
- LEWIN, M. E. & B. R. STUKENBERG  
 1972. A description of the female, egg, and first-instar larva of *Tongamyra miranda*, with notes on oviposition and the habitat of the species (Diptera: Apioceridae). *Ann. Natal Mus.* 21:439-453, 32 figs.
- MACQUART, J.  
 1838. *Diptères exotiques nouveaux ou peu connus*, 1(2):5-207, 14 pls. Paris. (Also published in *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts*, Lille 1838(3):121-323, 14 pls. 1839).  
 1847. *Diptères exotiques nouveaux ou peu connus*. 2<sup>e</sup>. Supplément. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts*, Lille 1846: 21-120, 6 pls. (Also separately published, as Supplément II, pp. 5-104, 6 pls., Paris, ?1847).
- OSTEN SACKEN, C. R.  
 1877. Western Diptera: Descriptions of new genera and species of Diptera from the region west of the Mississippi and especially from California. *Bull. U.S. Geol. Geogr. Surv. Terr* 3: 189-354.



1887. Diptera, Vol. 1 (part, concl.), pp. 129-160, 161-176, 177-208, 209-216, pl. 3, in F. D. Godman & O. Salvin, eds., *Biologia Centrali-Americana. Zoologia-Insecta-Diptera* 1:378 pp., 6 pls. London.
- PAINTER, R. H.
1932. A review of the genus *Apiocera* Westwood from North America (Apioceridae, Diptera). *Ann. Ent. Soc. Amer.* 25:350-356, 1 pl.
1938. The family Apioceratidae (Diptera) in North America. *Univ. Kansas Sci. Bull.* 24:187-203.
- PARAMONOV, S. J.
1948. Ueber die richtige Stellung der Gattungen *Dolichogaster* Macq. (Mydaiidae) und *Megascelus* Philippi (Apioceridae) (Diptera). *Rev. Ent.*, Rio de Janeiro 19:357-360.
1953. A review of Australian Apioceridae (Diptera). *Austral. Jour. Zool.* 1:449-537, 5 figs.
- PHILIPPI, R. A.
1865. Aufzählung der chilenischen Diptera. *Verh. zool.-bot. Ges. Wien* 15:595-782, pls. 23-29.
- SFLANDER, R. B. & P. VAURIE
1962. A gazetteer to accompany the "Insecta" volumes of the "Biologia Centrali-Americana". *Amer. Mus. Nov.* 2099:1-70, 8 figs.
- STUCKENBERG, B. R.
1966. A remarkable new genus and species of Apioceridae in South Africa (Diptera). *Rev. Zool. Bot. Afric.* 73:106-120, 9 figs.
- WESTWOOD, J. O.
1835. Insectorum novorum exoticorum (ex ordine dipterorum) descriptiones. *London & Edinburgh Phil. Mag. & Jour. Sci* (3) 6: 447-449.

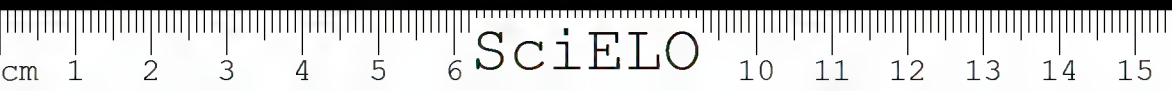
#### INDEX

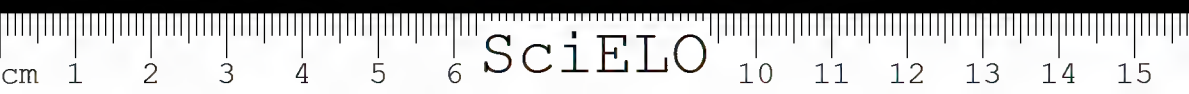
|  |      |
|--|------|
| <i>albovillosus</i> Artigas, 1973, <i>Megascelus</i> .....                     | 33.3 |
| <i>Anypenus</i> Philippi, 1865 .....   | 33.2 |
| <i>Apiocera</i> Westwood, 1835 .....   | 33.1 |
| Apiocerinae .....  | 33.1 |
| <i>Apomidas</i> Coquillett, 1892 .....   | 33.3 |
| <i>auger</i> , misspelling .....   | 33.2 |
| <i>augur</i> Osten Sacken, 1887, <i>Apiocera</i> .....                         | 33.2 |
| <i>aurelia</i> Artigas, 1970, <i>Apiocera</i> .....                            | 33.2 |
| <i>bilineata</i> Painter, 1932, <i>Apiocera</i> .....                          | 33.2 |
| <i>brevicornis</i> (Philippi), 1865 ( <i>Anypenus</i> ), <i>Apiocera</i> ..... | 33.2 |
| <i>brevirostris</i> Cazier, 1954, <i>Rhaphiomidas</i> .....                    | 33.3 |

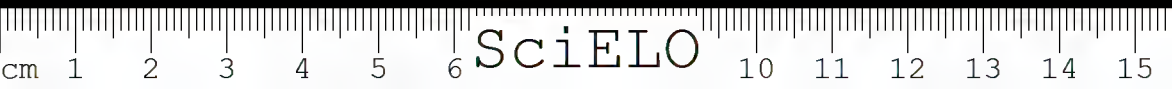




|   |      |
|---|------|
| episcopus Osten Sacken, 1877, Rhaphiomidas .....    | 33.3 |
| Megascelinae .....                                  | 33.3 |
| Megascelus Philippi, 1865 .....                     | 33.3 |
| melanoproctus Artigas, 1970, Megascelus .....       | 33.3 |
| mexicana Cazier, 1954, Apiocera .....               | 33.2 |
| monticola Artigas, 1970, Apiocera .....             | 33.2 |
| nigricornis Philippi, 1865, Megascelus .....        | 33.3 |
| nigrovillosus Artigas, 1970, Megascelus .....       | 33.3 |
| notata Painter, 1938, Apiocera .....                | 33.2 |
| obscura (Philippi), 1865 (Anypenus), Apiocera ..... | 33.2 |
| palmicola Artigas, 1970, Megascelus .....           | 33.3 |
| philippii Brèthes, 1924, Apiocera .....             | 33.2 |
| Pomacera Macquart, 1847 .....                       | 33.2 |
| Raphiomidas, misspelling .....                      | 33.3 |
| Rhaphiomidas Osten Sacken, 1877 .....               | 33.3 |
| Ripidosyrma Hermann, 1909 .....                     | 33.2 |
| sonorae Cazier, 1954, Apiocera .....                | 33.2 |
| Tapinocera Macquart, 1838 .....                     | 33.1 |







SciELO



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

34

## FAMILY MYDIDAE

(MYDAIDAE, MYDASIDAE)

NELSON PAPAVERO

*Departamento de Zoologia, Secretaria da Agricultura  
São Paulo, Brasil*

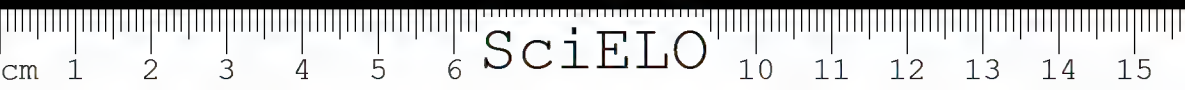
and

JOSEPH WILCOX

*21171 Mohler Place, Anaheim, California*

The flies of the family Mydidae are world wide in distribution but more numerous in warmer climates. It is a rather small family, Bequaert (1961) reports 227 species in 28 genera. In the Neotropical region, 78 species in 14 genera are listed here. These flies are considered rare but recent collectors have taken rather large numbers of a few species. They range from 9 to 60 mm in length and several species of *Mydas* Fabricius are considered to be the largest known two-winged flies. Bequaert (1961, 1963) has proposed three subfamilies for the Mydidae. The Mydinae would include all of the American genera except *Mitrodetus* Gerstaecker which is placed in the Diochlistinae. The Sylligomydinae contains mostly African genera.

The adult flies are taken mainly visiting flowers and their mouth parts in general appear to be adapted for this type of feeding. Paramonov (1950) reported seeing many Mydids capturing other insects in a manner similar to Asilids in Turkestan. Davis (1921) reported that *Mydas clavatus* (Drury), when captured, struck him on the finger, the bite being painful for the moment. The labrum which supports the proboscis, frequently is found disengaged and is quite sharp pointed, so these incidents appear quite probable. Walsh (1864) in Illinois reared *Mydas tibialis* Wiedemann (*fulvipes* Walsh) from fibrous debris found in a hollow sycamore which contained Coleopterous larvae and to which Lepidopterous pupae were added. Zikán (1942, 1944) found larvae of *Mydas heros* Perty in nests of the 'saúva' ant (*Atta serdens* L.), which were probably predators of the Dynastidae beetles *Coelosis biloba* L., *C. bicornis* Fabr., *C. sylvanus* Fabr., and *C. inermis* Sternb. Zikán also found females whose body was covered with earth, indicating that they may oviposit inside the ants' nest; the pupa, with the help of the strong



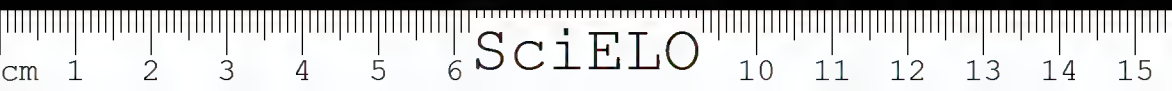
spines of its body, makes its way to the entrance of the nest, where the eclosion of the adult occurs. Genung (1959) reared *Mydas maculiventris* Westwood from scarab grubs infesting grass sod in sandy soils in Florida. Lenko (personal communication) informed us that *Mydas heros* Perty copulates during flight, the female usually carrying the male, which lays hanging, both making a considerable noise with the wings.

*Mydas* Fabricius extends from Canada to southern South America and *Messiasia* d'Andretta from Arizona to southern South America, but do not occur in Chile. d'Andretta (1951) has reviewed the Neotropical species of these two genera. The Chilean fauna was reviewed by Séguy (1933). *Apiophora* Philippi, *Mitrodetus* Gerstaecker, *Midacritus* Séguy, and *Paramydas* Carrera & d'Andretta are known only from Chile. *Ceratomydas* Williston, *Dolichogaster* Gerstaecker, and *Rhopalia* Macquart are known only from east of the Andes. *Mitrodetus* Gerstaecker is allied to the Australian genus *Dioclistus* Gerstaecker. *Rhopalia* Macquart is a north African genus and there is a question regarding its use for the Neotropical species. *Mydas rubrocinctus* Blanchard previously was placed in the African genus *Ectyphus* Gerstaecker but here is placed in *Apiophora* Philippi. The Nearctic genera *Phyllomydas* Bigot, *Opomydas* Curran, *Heteromydas* Hardy, and *Pseudonomoneura* Bequaert only extend a short distance into Mexico. *Nemomydas* Curran extends from Canada to Panama.

Previous catalogues which apply to part or all of the Neotropical region, are: Osten Sacken (1878) for North America; Hunter (1901) for South America; Aldrich (1905) for North America; Kertész (1909) for the world; and Stuardo Ortiz (1946) for Chile.

The location of the types is given when the printed information appears to be accurate. Most of the Wiedemann's types are in the Naturhistorisches Museum, Vienna (1831 mostly "Berlin Mus."); most of Macquart's are in Paris but some may be in the Bigot Collection, Hope Museum, Oxford; and Bellardi's are in the Istituto di Zoologia di Torino, but there are indications that some were placed in other collections. The following abbreviations have been used for type locations in other institutions.

- AMNH — American Museum of Natural History, New York, N.Y.
- BMNH — British Museum (Natural History), London, England.
- CAS — California Academy of Sciences, San Francisco, California.
- CIS — California Insect Survey, University of California, Berkeley, California.
- DZSP — Departamento de Zoologia, Secretaria da Agricultura, São Paulo, Brazil.
- MCZ — Museum of Comparative Zoology, Cambridge, Massachusetts.
- MNHN — Muséum National d'Histoire Naturelle. Paris, France.
- MNRJ — Museu Nacional do Rio de Janeiro, Rio de Janeiro, Brazil.
- UK — University of Kansas, Lawrence, Kansas.
- USNM — United States National Museum, Washington, D.C.



## Genus APIOPHORA Philippi

- APIOPHORA Philippi, 1865:682. Type-species, *paulseni* Philippi (orig. des.). Refs. — Séguy, 1938:268; Carrera & d'Andretta, 1948:491.
- ELVIRAE Reed & Ruiz, 1941:489. Type-locality: Chile, O'Higgins, Baños de Cauquenes. Distr. — Chile (O'Higgins: Baños de Cauquenes; Maule: 12 km N of Río Loanco, Fundo Parrón, 20 m). Type ♀, Reed coll., CAS.
- PAULSENI Philippi, 1865:682, pl. 25, fig. 22b. Type-locality: Chile, Santiago. Distr. — Chile (Valparaíso: Reñaca, Valparaíso, 2 km N. Algarobo, and Viña; Santiago: El Aroyán, Quebrada la Plata, 510 m, La Rinconada, and Maipo; Malleco?: Río Blanco). Refs. — Séguy, 1938:268; Reed & Ruiz, 1941:490. Type ♂, Santiago Nat. Hist. Mus.?
- RUBROCINCTA (Blanchard) in Gay, 1852:362, pl. 2, fig. 11 (*Mydas*). Type-locality: "Chile". Distr. — Chile (Ñuble: Las Trancas, and Refugio Las Cabras, 1560 m; Concepción: Río Claro; Curicó: Fundo la Montana). Type ♀, no. 3057.40, MNHN. Ref. — Séguy, 1928:142 (description of type, as *Ectyphus*). N. COMB.

## Genus CERIOMYDAS Williston

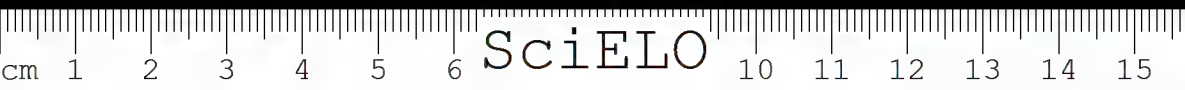
- CERIOMYDAS Williston, 1898:58. Type-species, *fraudulentus* Williston (mon.).
- FRAUDULENTUS Williston, 1898:58. Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Brazil (Mato Grosso). Type ♀, UK.

## Genus DOLICHOGASTER Macquart

- DOLICHOGASTER Macquart, 1848:178 (sep., p. 18). Type-species, *Mydas brevicornis* Wiedemann (mon.). Ref. — Paramonov, 1948 (syst. pos.).
- BREVICORNIS (Wiedemann), 1821:117 (*Mydas*). Type-locality: "Brazil". Distr. — Brazil (Goiás, Minas Gerais, São Paulo, Rio de Janeiro); Paraguay (Tacuru-Pucu). Ref. — d'Andretta & Carrera, 1951:9, figs. 9-25 (descr. genus and ♂ and ♀). Types ♀ ♀, Vienna, Berlin.
- iopterus* Wiedemann, 1828:241 (*Midas*). Type-locality: "Brazil". Ref. — Wiedemann, 1831:45, pl. 53, fig. 9 (listed *iopterus* with *brevicornis*).

## Genus HETEROMYDAS Hardy

- HETEROMYDAS Hardy, 1944:227. Type-species, *bicolor* Hardy (orig. des.).
- CHRYSTES (Osten Sacken), 1886:72 (*Midas*). Type-locality: Mexico, northern Sonora. Distr. — Mexico (northern Sonora). Refs. —

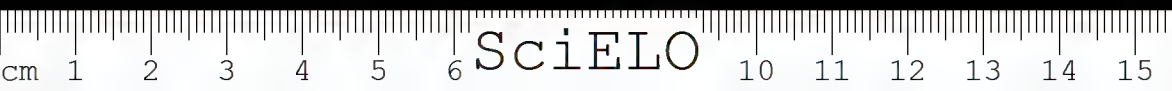




Séguy, 1928:130, figs. 1-6, 27. (The long slender palpus and the circlet of spines at the apex of the ♀ abdomen indicate *Heteromydas* Hardy. No specimens have been examined). Johnson, 1926:134 reports from U.S.A. (Arizona, Palmerlee); Dr. H. E. Evans, MCZ, examined this specimen and says it belongs in *Mydas* Fabricius. The correct genus for this species cannot be determined until the type can be examined. Type ♂, BMNH.

## Genus MESSIASIA d'Andretta

- MESSIASIA d'Andretta, 1951:52. Type-species, *carrerae* d'Andretta (orig. des.).
- CARRERA d'Andretta, 1951:55, figs. 16-21, 40, 83-85, 161, 169, 175, 183. Type-locality: Brazil, Santa Catarina, Imbituba. Distr. — Brazil (Santa Catarina). Type ♂, MNRJ.
- DALCYANA d'Andretta, 1951:62, figs. 46, 160, 167, 173, 179. Type-locality: Brazil, Guanabara, Rio de Janeiro, Restinga de Marambaia, Sernambitiba. Distr. — Brazil (Rio de Janeiro, Espírito Santo). Type ♂, DZSP.
- DECOR (Osten Sacken), 1886:71 (*Midas*). Type-locality: Panama, Bugaba, 800-1500 feet. Distr. — ?U.S.A. (New Mexico), Mexico (Guerrero: Venta de Zopilote), Costa Rica (Turrialba), Panama (Bugaba), Brazil (Guanabara). Ref. — d'Andretta, 1951:68, figs. 44, 52, 76, 77, 159, 165, 174, 180 (descr. of ♂ and ♀). Type ♂, BMNH.
- LANEI d'Andretta, 1951:56, figs. 41, 193-195. Type-locality: Peru, Lima. Distr. — Peru (Lima). Type ♀, USNM.
- NOTOSPILA (Wiedemann), 1828:244 (1831:37, 52, pl. 54, fig. 20) (*Midas*). Type-locality: Uruguay, Montevideo. Distr. — Brazil (Mato Grosso), Paraguay (Paacupe), Uruguay (Montevideo). Ref. — d'Andretta, 1951:60, figs. 43, 70-72, 164, 168, 171, 182 (descr. of ♂ and ♀).
- PERTENUIS (Johnson), 1926:137 (*Mydas*). Type-locality: U.S.A., Arizona, Baboquivari Mts. Distr. — U.S.A. (Arizona: Pima County, Baboquivari Mts., Sabino Canyon, Tucson), Mexico (Sonora; Desemboque). Type ♂, MCZ. N. comb.
- POLITA (Wiedemann), 1828:240 (1831:36, 43, pl. 53, fig. 7) (*Midas*). Type-locality: unknown. Distr. — Mexico (Chiapas: El Zapotal; Oaxaca: Tehuantepec; Tamaulipas: Tampico; Yucatán, Costa Rica (Higuito, San Mateo), Brazil (Pará: Boa Vista, Rio Tapajós). Ref. — d'Andretta, 1951:64, figs. 1, 45, 162, 170, 172, 181 (descr. of ♂ and ♀). Type ♀, Copenhagen.
- atratus* Walker, 1854:364 (*Midas*, preocc. Macquart, 1838). Type-locality: Brazil, Pará, Rio Tapajós. Type, BMNH.
- perpolitus* Johnson, 1933:72 (*Mydas*). Type-locality: Mexico, Yucatán, Chichen Itzá. Type ♂, MCZ.
- PUNICEA (Séguy), 1928:143 (*Mydas*). Type-locality: "Argentina, Chaco de Santiago del Estero, bords du rio Salado, env. d'Icaño; Rio Salado: La Palisa, 25 km N.O. d'Icaño, laguna Mamaíta; env.



d'Icaño, Mistol Paso; bords du Rio Salado, Averias". Distr. — Argentina (Santiago del Estero). Syntypes, MNHN. Ref. — d'Andretta, 1951:59, fig. 42 (descr. of ♀).

ZIKANI d'Andretta, 1951:67, figs. 47, 87, 163, 166, 176-178. Type-locality: Paraguay, San Bernardino. Distr. — Brazil (Amazonas, Mato Grosso), Paraguay (La Cordillera: San Bernardino). Type ♂, USNM, ♀, DZSP.

### Genus MIDACRITUS Séguy

MIDACRITUS Séguy, 1938:269. Type-species, *stuardoanus* Séguy (orig. des.).

KUSCHELI Séguy, 1951:12. Type-locality: Chile, Antofagasta, Toconao. Distr. — Chile (Antofagasta: Toconao). Type ♀, MNHN.

STUARDOANUS Séguy, 1938:270, fig. 29. Type-locality: Chile, Coquimbo, Arenal, Los Chiches, and Elqui. Distr. — Chile (Coquimbo: Choapa, Elqui and Los Chiches). Type ♀, MNHN.

WAGENKNECHTI Reed & Ruiz, 1941:490. Type-locality: Chile, Coquimbo, Elqui, Baños del Toro, 3.30 m. Distr. — Chile (Atacama: Huasco Bajo; Coquimbo: Elqui, Baños del Toro). Types ♂ ♀, Reed coll., CAS.

### Genus MITRODETUS Gerstaecker

MITRODETUS Gerstaecker, 1868:76. Type-species, *Cephalocera dentitarsis* Macquart (orig. des.).

Refs. — Séguy, 1928:134, figs. 17, 30; 1938:272, pl. 16; Reed & Ruiz, 1941:487.

CHILENSIS Reed & Ruiz, 1941:491. Type-locality: Chile, Coquimbo: Elqui, Punto Hurtado. Distr. — Chile (Coquimbo). Types ♀ ♂, Reed coll., CAS.

DENTITARSIS (Macquart), 1850:360, pl. 4, fig. 1 (sep., p. 56) (*Cephalocera*). Type-locality: "Chile". Distr. — Chile (Coquimbo: Elqui, Paihuano, Fraygocillo, and Trumas; Valparaíso; Santiago: El Canelo, R. Hajardo, La Rinconada, Maipu, 450 m, and Quebrada de la Plata, 510 m; Bío-Bío; Cautín: Villarica). Refs. — Séguy, 1928:134, figs. 17, 30; Karl, 1959: fig. 50 (♂ genitalia). Type ♀, MNHN.

*albocinctus* Blanchard in Gay, 1852:361, pl. 2, fig. 10 (*Cephalocera*). Type-locality: Chile, Coquimbo. Type ♂, MNHN.

*elegans* Philippi, 1865:680 (*Cephalocera*). Type-locality: Chile, Santiago. Types ♂ ♀, Santiago Nat. Hist. Mus.?

DIMIDIATUS (Philippi), 1865:681 (*Cephalocera*). Type-locality: Chile, Coquimbo, Illapel. Distr. — Chile (Coquimbo: Huanta, Illapel, La Higuera, and Río Turbio). Ref. — Séguy, 1938:274. Type in Santiago Nat. Hist. Mus.?

LEUCOTRICHUS (Philippi), 1865:681 (*Cephalocera*). Type-locality: Chile, Coquimbo, Illapel. Distr. — Chile (Coquimbo: Elqui, Huanta, Illapel, Ovalle, Inebrada Injerico; Valparaíso: Reñaca; Santiago:

La Higuera, Quebrada Ingenio Limari; ?Malleco: Río Blanco).  
Type in Santiago Nat. Hist. Mus.

MATTHEI Reed & Ruiz, 1941:491. Type-locality: Chile, Valparaíso, Reñaca.  
Distr. — Chile (Coquimbo: Tongoycillo, Totoralillo; Valparaíso:  
Reñaca). Type ♂, CAS.

MICROGLOSSA Séguy, 1951:12. Type-locality: "Chile, oasis de Toconao, alt.  
2.500m (sur la même latitude que la cille de Antofagasta, premiers  
contreforts des Andes)". Distr. — Chile (Antofagasta: Toconao).  
Type ♂, MNHN.

REEDI Reed & Ruiz, 1941:492. Type-locality: Chile, Coquimbo, Punta  
Teatinos. Distr. — Chile (Coquimbo: Fray Jorge N.P., 50 km S.  
La Serena, 35 mi. S. Ovalle, Punta Teatinos; Santiago: Quebrada  
Honda). Types ♀ ♂, Reed coll., CAS.

THEREVIFORMIS Séguy, 1938:274, pl. 16. Type-locality: Chile, Coquimbo, Las  
Trancas. Distr. — Chile (Tarapacá: Churgui; Coquimbo: Estero  
Socos, La Arena, Las Trancas; Santiago: Quebrada Potrerillos).  
Types ♂ ♀, MNHN.

### Genus MYDAS Fabricius

MYDAS Fabricius, 1794:252. Type-species, *Musca clavata* Drury (Latreille,  
1810:443).

*Midas*, emend.

*Lampromydas* Séguy, 1928:144. Type-species, *belus* Séguy (mon.).

The spelling of *Mydas* has been changed to *Midas* and back for many years. In the introduction to Curran's catalogue (1965:358), this note was added: "[It has been pointed out to us by L. W. Grenstead that the name likely was derived from King Midas, whose ass-ears would resemble the mydid antennae, and that the correct root of the genus is Myd-, resulting in the formation of the family name Mydidae. — Eds.]" Osten Sacken (1895) reviews the use of this name very thoroughly and the switch in spelling from *Mydas* to *Midas* and vice versa by authors. Latreille (1796) was the first to change the name to *Midas* but in his later publications used *Mydas*. Fabricius (1794) apparently did not make a mistake in spelling because he used *midas* for Coleoptera and later for Diptera, but retained *Mydas* in his later publications. Gerstaecker (1868) who used *Mydas* did not find the word in Greek literature and said it merely resembles the words 'mydáo' (to be wet) and 'mudos' (mute): "to be wet" may have meant an allusion to the peculiar transverse folds which distinguish the wings of the genus, and does not seem a too far fetched assumption. Osten Sacken at first considered this explanation "far fetched" and changed to *Midas* (1878), but after reviewing all available information (1895) said it appears somewhat more plausible.

ANNULARIS Gerstaecker, 1868:100. Type-locality: "Mexico". Distr. — Mexico (Guerrero: Chilpancingo; Jalisco: 10 mi. S. Apatzingán, 14 mi. W. Guadalajara; Michoacán: Tuxpán; Nayarit: 4 mi. W. Tepic; Sonora: 7 mi. W. Álamos). Type ♀, Berlin Mus.

- APICALIS** Wiedemann, 1830:629 (1831:48, pl. 53, fig. 14) (*Midas*). Type-locality: "Brazil". Distr. — Brazil (São Paulo, Rio de Janeiro, Santa Catarina), Argentina (Buenos Aires), Paraguay (Caaguazú; Paso Yobay). Ref. — d'Andretta, 1951:29, figs. 28, 49, 57-59, 88, 102, 125, 134, 144, 150, 190-192 (descr. ♂ and ♀). Type ♂, Berlin Mus.
- bonariensis* Guérin-Méneville, 1835:543, pl. 97, fig. 5. Type-locality: Argentina, Buenos Aires.
- annulicornis* Westwood, 1841:51, pl. 13, fig. 2 (*Midas*). Type-locality: "Brazil". Type ♀, BMNH?
- ARGYROSTOMUS** Gerstaecker, 1868:94. Type-locality: "Colombia". Distr. — Colombia (more precise locality not known), Brazil (Pará: Óbidos). Ref. — d'Andretta, 1951:28, figs. 38, 117, 140, 153 (descr. of ♂). Type ♂, Berlin Mus.
- AUTUORH** d'Andretta, 1951:32, figs. 24, 31, 104, 116, 135, 152. Type-locality: Uruguay, Montevideo. Distr. — Brazil (Mato Grosso), Uruguay (Montevideo). Type ♂, USNM, ♀, DZSP.
- BASALIS** Westwood, 1841:53 (*Midas*). Type-locality: Mexico, Tacubaya. Distr. — Mexico (D.F.: Huipulco; 18 mi. S. Mexico City, Tacubaya; Hidalgo: 4 mi. S. Tepeji). Ref. — d'Andretta, 1951:51, figs. 23, 73, 75 (descr. of ♀). Type ♀, BMNH.
- BELUS** (Séguy), 1928:144, figs. 12, 21 (*Lampromydas*). Type-locality: Mexico, "environs de Puebla". Distr. — Mexico (Michoacán: 15 km E. Sombrete; Nuevo León: 26 and 50 mi. S. Monterey; Zacatecas: 5 km S. Karapu). Ref. — d'Andretta, 1951:48, lists as a synonym of *interruptus* Wiedemann. Types ♂ ♀, MNHN.
- BITAENIATUS** Bellardi, 1861:7 (107), pl. 1, fig. 1. Type-locality: Mexico, Playa Vicente. Distr. — Mexico (Chiapas: Santo Domingo, 15 mi. S. E. Simojovel), Guatemala (Zacapa) (Johnson, 1933:72). Type ♂, Torino.
- BREDERI** Curran, 1951:2. Type-locality: Bahama Islands, South Bimini Island. Distr. — Bahama Islands (South and East Bimini Islands, Nassau). Types ♂ ♀, AMNH.
- gracilis* Macquart of d'Andretta, 1951:46, figs. 22, 50, 78, 80, 119, 155, misident. (descr. of ♂).
- CINGULATUS** Williston, 1898:57. Type-locality: Paraguay, shore of Río Paraguay, below Concepción. Distr. — Paraguay. Type ♀, UK.
- CLARPENNIS** Williston, 1898:56. Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Brazil (Mato Grosso). Type ♀, UK.
- COERULESCENS** Olivier, 1811:83. Type-locality: "South America". Distr. — South America; Brazil (Mato Grosso, Minas Gerais, Rio de Janeiro, São Paulo). Ref. — d'Andretta, 1951:10, figs. 34, 48, 63-65, 94, 129, 130, 142, 143 (descr. ♂ and ♀).
- giganteus* Thunberg, 1818:246, fig. 9. Type-locality: "Brazil". Ref. — Wiedemann, 1831:38, 39, pl. 52, fig. 1 (♂ ♀) (gives a Latin translation of Thunberg's description, on footnote).



- CRASSIPES Westwood, 1841:51, pl. 13, fig. 3 (*Midas*). Type-locality: "North America". Distr. — U.S.A. (Florida), Mexico (Tabasco: Teapa) (Williston, 1901:268), Brazil (Rio de Janeiro: Itatiaia) (d'Andretta, 1951:34, fig. 30 [descr. of ♀]). Type ♀, Hope Mus., Oxford, and Children Coll. (BMNH?).
- CUBANA Curran, 1951:3. Type-locality: Cuba, Havana. Distr. — Cuba (Havana). Type ♀, AMNH.
- gracilis* Macquart of Loew, in Osten Sacken, 1878:84, misident.
- DIVES Westwood, 1841:50, pl. 13, fig. 1 (*Midas*). Type-locality: unknown. Distr. — ?Mexico, Panama (Bugaba), Colombia (Muzo), Guyana (Kartabo), Brazil (Pará: Óbidos). Ref. — d'Andretta, 1951:25, figs. 37, 60, 120, 137, 149 (descr. ♂ ♀). Type ♀, Hope Mus., Oxford.
- EUPOLIS Séguy, 1928:142. Type-locality: Mexico, Jalisco, Huejotitan, 1700 m. Distr. — Mexico (Durango, 4 mi. N. Nombre de Dios; Jalisco). Type ♀, MNHN.
- GRACILIS Macquart, 1834:274, pl. 7, fig. 1. Type-locality: "South America". Distr. — South America. Ref. — Westwood, 1841:52 (descr.). Types ♂ ♀, MNHN.
- HEROS Perty, 1833:183, pl. 36, fig. 11 (*Midas*). Type-locality: Brazil, Bahia. Distr. — Brazil (Amazonas, Goiás, Espírito Santo, Minas Gerais, São Paulo), Colombia (Muzo). Ref. — d'Andretta, 1951:17, figs. 3, 29, 61, 62, 66-69, 89, 95, 106-109, 111-113, 136-139, 151, 187-189, 200-202 (descr. ♂ and ♀).
- praegrandis* Austen, 1909:130 (1910:17, pl. 15, fig. 4). Type-locality: Brazil, Paraná.
- INTERRUPTUS Wiedemann, 1830:628 (1831:46, pl. 53, fig. 12, ♂ ♀) (*Midas*). Type-locality: "Mexico". Distr. — Mexico (Chiltenden, D.F., Coapa; Guerrero: Arizintla, nr. Iguala; Jalisco: 11 mi. N. W. Guadalajara; ?Mexico: 8 mi. S. Ixtapán; Michoacán: 10 mi. S. Apatzingán; Morelos: Cuernavaca, and 36, 46, and 55 mi. S., Lago Tequesquitengo; Puebla: 27 mi. S. Acatlán, 7 mi. N. W. Izúcar de Matamoros; San Luis Potosí: 19 mi. S. W. San Luis Potosí). Ref. — d'Andretta, 1951:48, figs. 39, 53, 81, 82, 90, 99, 121, 128, 147, 148 (descr. of ♂) [*senilis* Westwood (see *Nemomydas*), *tricinctus* Bellardi, and *belus* Séguy are listed as synonyms]. Types ♂ ♀, Berlin Mus.
- LAVATUS Gerstaecker, 1868:96. Type-locality: "Mexico". Distr. — Mexico. Types ♂ ♀, Berlin Mus. Gerstaecker (*l. c.*) questioned whether it was the same as *xanthopterus* Loew. Osten Sacken (1878:84) listed it as a synonym of *xanthopterus* Loew, but later (1886:73) said he was not sure of this synonymy.
- LEUCOPS Wiedemann, 1830:628 (1831:45, pl. 53, fig. 10) (*Midas*). Type-locality: "Brazil". Distr. — Brazil (Sergipe). Ref. — d'Andretta, 1951:14, figs. 25, 97, 114, 131 (descr. of ♂). Type ♂, Wiedemann coll.
- LIVIDUS Curran, 1953:2. Type-locality: U.S.A., Arizona, Pima Co., Sabino Basin, Santa Catalina Mts. Distr. — U.S.A. (Arizona: Graham Co., Pima Co.; ?Florida), Mexico (Sonora: Alamos and 15 mi.

E., 7 mi. S. Río Cuchuhuac; Sinaloa: 8 mi. S. Elota, 20 mi. E. Villa Unión). Types ♂ ♀, AMNH.

**LUTEIPENNIS** Loew, 1866:14 (Cent. 7, no. 23) (*Midas*). Type-locality: U.S.A., Western Texas (New Mexico). Distr. — U.S.A. (Arizona, New Mexico, Texas), Mexico (Coahuila: 7 mi. N. Parras). Ref. — Curran (1934:165) says, "Of two specimens (...) one has a vein (posterior crossvein) in one wing while the other specimen has none". Types ♂ ♀, MCZ.

**MILITARIS** Gerstaecker, 1868:99 (nom. nov. for *vittatus* Macquart). Type-locality: "Mexico". Distr. — U.S.A. (?Arizona) (Curran, 1965:359). Mexico (Jalisco: 3 mi. S.E. Plan de Barancas; Puebla: Atencingo; Nayarit: Arroyo Santiago nr. Jesus Maria, Jesus Maria; Sinaloa: Chupaderos; Veracruz: Cotaxtla, Veracruz). Ref. — d'Andretta, 1951: 43, figs 33, 103, 123, 132, 154 (descr. of ♂). Type ♀, MNHN.  
*vittatus* Macquart, 1850:364 (sep., p. 60), pl. 4, fig. 6 (preocc. Wiedemann, 1828). Type-locality: "Mexico".

**MYSTACEUS** Wiedemann, 1830:626 (1831:40, pl. 52, figs. 3, 3a-b) (*Midas*). Type-locality: "Surinam". Distr. — Surinam, Brazil (Santa Catarina). Ref. — d'Andretta, 1951:24, figs. 32, 96, 118, 138, 158 (descr. of ♂). Type ♂, Berlin?

**NITIDULUS** Olivier, 1811:83. Type-locality: "South America". Distr. — South America. Ref. — Wiedemann, 1831:41, pl. 52, fig. 4 (descr. of type, sex unknown).

**QUADRILINEATUS** Williston, 1898:56. Type-locality: "Mexico". Distr. — Mexico (San Luis Potosi: Tamazunchale; Veracruz: San Rafael, Tecolutla). Ref. — d'Andretta, 1951:7, fig. 36 (descr. of ♀). Type ♂, UK.

**RUBIDAPEX** Wiedemann, 1830:626 (1831:40, pl. 52, fig. 2) (*Midas*). Type-locality: "Mexico". Distr. — Mexico (Guerrero: Acaguinzolla, Dos Arroyos, Venta de Zopilote; Yucatán), Guatemala (San Gerónimo), Venezuela. Ref. — d'Andretta, 1951:21, figs. 35, 105, 110, 133, 157 (descr. of ♂), Type ♂, Berlin.

**RUFIVENTRIS** Macquart, 1850:364 (sep., p. 60). Type-locality: "Brazil". Distr. — Mexico (Oaxaca: Tehuantepec), Brazil. Ref. — d'Andretta, 1951:38, figs. 26, 101, 102, 127, 156 (descr. of ♂). Type ♂, Paris.

**SUBINTERRUPTUS** Bellardi, 1861:10 (110), pl. 1, fig. 3. Type-locality: Mexico, Angang[ueo] and Pátzcuaro. Distr. — Mexico (Chihuahua; Durango: Durango and 4 mi. W.; Michoacán: Angangueo and Pátzcuaro). Types ♂ ♀, Torino.

**TESTACEIVENTRIS** Macquart, 1850:365 (sep., p. 61), pl. 5, fig. 6. Type-locality: Uruguay, Maldonado. Distr. — Uruguay (Maldonado). Ref. — Séguy, 1928:143 (descr. ♀ type). Type ♀, MNHN.

**TIBIALIS** Wiedemann, 1828:11 (1831:42, pl. 53, fig. 6) (*Midas*). Type-locality: U.S.A., Maryland, Baltimore. Distr. — U.S.A. (Michigan to Pennsylvania, Illinois to Florida), Mexico. Ref. — Bellardi, 1861:6 (106) (descr. of ♂). Type ♂, Berlin.

- fulvipes* Walsh, 1864:306. Type-locality: U.S.A., Illinois. Type ♂, lost?
- TRICINCTUS Bellardi, 1861:8 (108), pl. 1, fig. 2. Type-locality: Mexico, surroundings of Mexico City. Distr. — U.S.A. (Arizona: Cochise and Santa Cruz Counties), Mexico (Chiapas: Colonia L. Cardenas; Jalisco: Tequila; Sonora: 7 mi. W. Álamos). Ref. — d'Andretta, 1951:48, lists as synonym of *interruptus* Wiedemann, along with *senilis* Westwood and *belus* (Séguy); Curran, 1965:358, lists *belus* (Séguy) as synonym of *tricinctus* Bellardi. Types ♂, MNHN and Torino.
- TRICOLOR Wiedemann, 1830:627 (1831:42, pl. 53, fig. 5) (*Midas*). Type-locality: "Cuba". Distr. — Cuba. Ref. — Westwood, 1841:50 (reports larvae parasitic on the larvae of the giant Prionidae); Curran, 1951:2, 4 (notes and key to West Indian species). Type ♀, Berlin.
- VENTRALIS Gerstaecker, 1868:102 (*Midas*; nom. nov. for *rufiventris* Loew). Type-locality: U.S.A., California. Distr. — U.S.A. (Arizona, California, New Mexico), Mexico. Ref. — Johnson, 1926:134, 136, 137 (key, brief descr. of *ventralis* Gerstaecker, and *abdominalis* Adams and *cleptes* Osten Sacken, which he considers varieties). Type ♂, MCZ.
- rufiventris* Loew, 1866:14 (Cent. 7, no 22) (*Midas*; preocc. Macquart, 1850). Type-locality: U.S.A., California.
- ssp. CLEPTES Osten Sacken, 1886:72 (*Midas*). Type-locality: Mexico, northern Sonora. Distr. — U.S.A. (Arizona, New Mexico, Texas), Mexico (northern Sonora). Ref. — Curran, 1965:358, 359, lists *cleptes* Osten Sacken as a valid species, and *abdominalis* Adams as a synonym of *ventralis* Gerstaecker. Type ♂, BMNH.
- ssp. ABDOMINALIS Adams, 1904:434. Type-locality: U.S.A., Arizona, Congress Junction. Distr. — U.S.A. (Arizona, California, New Mexico), Mexico (Sonora: Álamos, San Francisquito Bay, Decemboque, Santa Ana). Ref. — Johnson, 1926:134, 137. Type ♂ ♀, UK.
- VIRGATUS Wiedemann, 1830:630 (1831:51, pl. 54, fig. 19) (*Midas*). Type-locality: "Brazil". Distr. — Brazil. Type ♂ (Gerstaecker, 1868: 97). Berlin.
- XANTHOPTERUS Loew, 1866:14 (Cent. 7, no. 24) (*Midas*). Type-locality: U.S.A., Western Texas (New Mexico). Distr. — U.S.A. (Arizona, California, New Mexico, Texas, Utah), Mexico (Baja California del Norte: El Progreso). Types ♂ ♀, MCZ.

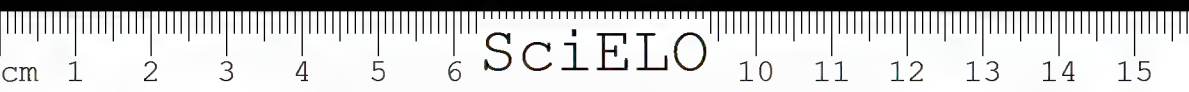
#### Genus NEMOMYDAS Curran

- NEMOMYDAS Curran, 1934:165 (in key). Type-species, *Leptomydas pantherinus* Gerstaecker (orig. des.).
- BEQUAERTI (Johnson), 1926:144, pl. 3, figs. 20, 21 (*Leptomydas*). Type-locality: Honduras, Puerto Castilla. Distr. — Honduras (Puerto Castilla, Tela). Type ♂ ♀, MCZ. N. comb.
- BRACHYRHYNCHIUS (Osten Sacken), 1886:69 (*Leptomidas*). Type-locality: Mexico, northern Sonora. Distr. — U.S.A. (Arizona: Cochise, Pima and Santa Cruz Counties; ?California; Texas), Mexico (northern Sonora). Type ♀, BMNH.

- INTONSUS Hardy, 1950:27, figs. 6a-b. Type-locality: U.S.A., California, Pine Valley. Distr. — U.S.A. (California: San Diego Co.), Mexico (no records, but should occur in Baja California as collected only a few miles from there, 4 mi. W. Jacumba, California). Types ♂ ♀, UK.
- LAMIA (Séguy), 1928:146 (*Nomoneura*). Type-locality: Costa Rica, La Caja. Distr. — Costa Rica, Types ♂ ♀, MNHN, DZSP. N. COMB.
- PANAMENSIS (Curran), 1934:165, fig. 11 (p. 164) (no description, only figure of head in lateral aspect) (*Nomoneura*). Type-locality: Panama, Canal Zone, Bruja Point. 2 ♂, AMNH. According to article 16(vii) of the Code of Zoological Nomenclature, this name is available; the species remains unrecognized until the type is described. N. COMB.
- PANTHERINUS (Gerstaecker), 1868:85 (*Leptomydas*). Type-locality: U.S.A., California. Distr. — U.S.A. (British Columbia to Wyoming, south to California and Colorado), Mexico (Baja California Norte: El Descanso). Type ♀, Berlin.
- SENILIS (Westwood), 1841:52 (*Midas*). Type-locality: Mexico, Tacubaya. Distr. — Mexico (D.F.: Tacubaya). Ref. — Johnson, 1926:131, placed in *Leptomydas*; d'Andretta, 1951:48, listed as a synonym of *Mydas interruptus* Wiedemann. Its small size (6 lines) and absence of the posterior crossvein indicates it might be better placed in *Nemomydas*. Type?, BMNH. N. COMB.
- SPONSOR (Osten Sacken), 1886:68 (*Leptomidas*). Type-locality: Guatemala, San Gerónimo. Distr. — Guatemala (San Gerónimo), Nicaragua (Granada), Type ♀, BMNH. N. COMB.
- VENOSUS (Loew), 1866:15 (Cent. 7, no. 26) (*Midas*). Type-locality: U.S.A., Western Texas (New Mexico). Distr. — U.S.A. (Arizona to Colorado, Kansas, ?Florida), Mexico (Sonora: Álamos, San Carlos Bay). Ref. — Hardy, 1950:34, figs. 9a-b (descr. ♂ ♀ and key to Nearctic species). Type ?♂, MCZ.

#### Genus OPOMYDAS Curran

- OPOMYDAS Curran, 1934:165 (in key), figs. 4, 12 (p. 164). Type-species, *Ectyphus limbatus* Williston (orig. des.).
- ATHAMUS (Séguy), 1928:141, fig. 22 (*Ectyphus*). Type-locality: Mexico, Baja California. Distr. — U.S.A. (California: San Diego to Inyo Co.), Mexico (Baja California). Type ♀, MNHN. N. COMB.
- LIMBATUS (Williston), 1886:292 (*Ectyphus*). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona, California, Utah, ?Florida), Mexico (Sonora: 3 mi. S. Altar). Ref. — Hardy, 1944:228, figs. 4a-c. Type ♀, UK. Note: The genus ranges from California to Texas near the Mexican border, so additional species will undoubtedly be collected in Mexico.





## Genus PARAMYDAS Carrera & d'Andretta

PARAMYDAS Carrera & d'Andretta, 1948:490. Type-species, *Mydas igniticornis* Bigot (orig. des.).

IGNITICORNIS (Bigot), 1857:288 (*Mydas*). Type-locality: "Chile". Distr. — Chile (Valparaiso: Reñaca; Santiago: El Canelo, Quebrada La Plata, 510 m, Rinconada, and Maipu; Colchagua: Llico; ?Malleco: Río Blanco). Ref. — Carrera & d'Andretta, 1948: 492, figs. 1-6, 10 (descr. of ♀). Type ♀, Hope Mus.?

*lugens* Philippi, 1865:684 (*Midas*). Type-locality: Chile, Colchagua, Llico.

*apicalis* Wiedemann of Schiner, 1868:153 (*Midas*), misident.

## Genus PHYLLOMYDAS Bigot

PHYLLOMYDAS Bigot, 1880:xlvi. Type-species, *phyllocerus* Bigot (mon.).

SCITULUS (Williston), 1886:291 (*Mydas*). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona: Pima Co.), Mexico (Sonora: Guaymas and 5 mi. W. Santa Ana). Refs. — Johnson, 1926:139, 140, figs. 5-11; Curran, 1934:164, figs. 1-3, 5, 7; Hardy, 1943:50-52 (key and review of species). Type ♂, UK. Note: The other three described Nearctic species are likely to be collected in Mexico as they were collected from California to Texas near the Mexican border. They are: *bruesii* Johnson (1926:140, Texas), *currani* Hardy (1943:51, Arizona, New Mexico), and *phyllocerus* Bigot (1880:xlvi, Rocky Mountains, Kansas and Texas to California).

## Genus PSEUDONOMONEURA Bequaert

PSEUDONOMONEURA Bequaert, 1961:13. Type-species, *Leptomydas hirtus* Coquillett (orig. des.).

*Nomoneura* authors, not Bezzi.

CALIFORNICA (Hardy), 1950:11, figs. 1a-c (*Nomoneura*). Type-locality: U.S.A., California, Riverside Co., Blythe. Distr. — U.S.A. (Arizona: Yuma Co.; California: Imperial Co. to Mono Co.), Mexico (Sonora: Desemboque; Baja California Norte: 15 mi. S. San Felipe). Types ♂ ♀, CIS.

HIRTA (Coquillett), in Baker, 1904:39 (*Leptomydas*). Type-locality: U.S.A., California, Los Angeles Co., Claremont. Distr. — U.S.A. (California: San Diego to Santa Barbara, Kern and Inyo Counties), Mexico (Baja California). Ref. — Hardy, 1950:15, figs. 2a-f (descr. of ♂ and ♀). Type ♂, USNM.

*concinus* Coquillett in Baker, 1904:39 (*Leptomydas*). Type-locality: U.S.A., California, Los Angeles Co., Claremont. Type ♀, USNM.

## Genus RHOPALIA Macquart

RHOPALIA Macquart, 1838:12 (sep., p. 128). Type-species, *olivieri* Macquart (mon.).

*Rhopalia* is an African genus; examination of African species is necessary to establish whether *mirandai* belongs actually to *Rhopalia* or to a new genus.

MIRANDAI d'Andretta & Carrera, 1951:7, figs. 1-8. Type-locality: Brazil, Ceará, Icó. Distr. — Brazil (Ceará). (Neither the type-locality nor the distribution of this species were cited in the original description; the data here provided were obtained from the examination of the ♂ ♀ types, in DZSP).

### LITERATURE CITED

ADAMS, C. F.

1904. Notes on and descriptions of North American Diptera. *Kansas Univ. Sci. Bull.* 2 [= whole series, 12]:433-455 [= *Kansas Univ. Bull.* 4(6)].

ALDRICH, J. M.

1905. A catalogue of North American Diptera. *Smithson. Misc. Coll.* 46 [2(= publ. 1444)]:1-680.

D'ANDRETTA, M. A. V.

1951. Contribuição para o conhecimento da família Mydidae. Generos: *Mydas* F., 1794 e *Messiasia*, n. gen. (Diptera). *Papéis Avulsos Dep. Zool. S. Paulo* 10(1):1-76, 195 figs.

D'ANDRETTA, M. A. V. & M. CARRERA

1951. Sobre alguns Mydidae do Brasil (Diptera). *Arq. Mus. Nac., Rio de Janeiro* 42:7-11, 4 pls.

AUSTEN, E. E.

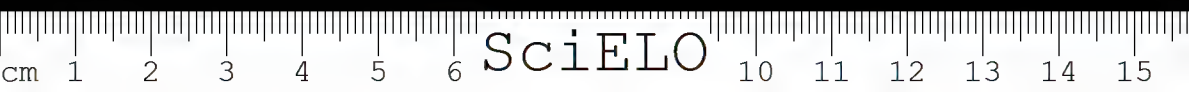
1909. Two remarkable new species of Diptera. *Nov. Zool., London* 16:130.

BAKER, C. F.

1904. Diptera. Reports on Californian and Nevadan Diptera. I. *Invertebrata Pacifica* 1:17-39.

BELLARDI, L.

1861. *Saggio di ditterologia messicana. Parte II* 2:99 pp. 2 pls. Torino. (Also published in *Mem. R. Accad. delle Sci. Torino* 21:103-109, 2 pls., 1864).



BEQUAERT, M.

1961. Contribution à la connaissance morphologique et à la classification des Mydidae (Diptera). *Bull. Inst. Roy. Sci. Nat. Belgique* 37(19):1-18, 17 figs.
1963. Contribution nouvelle à la connaissance des Mydidae de la région Éthiopienne. *Mém. Inst. Roy. Sci. Nat. Belgique* (2nd series) 71:1-68, 15 figs.

BIGOT, J. M. F.

1857. Diptères nouveaux provenant du Chili. *Ann. Soc. Ent. France* (3)5:277-308, pls. 6-7.
1880. [Diagnoses de trois genres nouveaux de Diptères]. *Ann. Soc. Ent. France* (5) 10 (Bull.):xlvi-xlviii.

BLANCHARD, E.

1852. Orden IX. Dipteros, pp. 327-468, in C. Gay, ed., *Historia física y política de Chile. Zoología* 7:471 pp. Paris. \*

CARRERA, M. & M. A. V. D'ANDRETTA

1948. Descrição de um novo gênero de Mydidae do Chile e redescritção do gênero *Megascelus* (Apioceratidae) (Diptera). *Rev. Ent., Rio de Janeiro* 19:489-497, 11 figs.

CURRAN, C. H.

1934. *The families and genera of North American Diptera*, 512 pp., 235 figs., 2 pls. New York.
1951. The West Indian species of *Mydas* and *Proctacanthus* (Diptera: Mydidae and Asilidae). *Amer. Mus. Nov.* 1507:1-9.
1953. Notes and descriptions of some Mydidae and Syrphidae. *Amer. Mus. Nov.* 1645:1-15.
1965. Family Mydidae (Mydidae, Mydasidae), pp. 357-360, in A. Stone et al., *A Catalog of the Diptera of America north of Mexico*. U.S. Dept. Agric., Agric. Handbook 276:1696 pp.

DAVIS, W. T.

1921. Proceedings of the Society. Meeting of February 10, 1921. *Bull. Brooklyn Ent. Soc.* 16:138.

FABRICIUS, J. C.

1794. *Entomologia systematica emendata et aucta* 4:472 pp. Hafniae (= Copenhagen).

GENUNG, W. G.

1959. Biological and ecological observations on *Mydas maculiventris* Westwood (Diptera: Mydidae) as a predator of white grubs. *Florida Ent.* 42:35-37.

GERSTAECKER, A.

1868. Systematische Uebersicht der bis jetzt bekannt gewordenen Mydiden (Mydasii Latr.). *Stettin. Ent. Ztg.* 29:65-103, 1 pl.

GUÉRIN-MÉNEVILLE, F. E.

1835. Pls. 92-104, in his *Iconographie du règne animal de G. Cuvier* 2 (Planches des animaux invertébrés), Insectes: 104 pls. Paris.

HARDY, D. E.

1943. Studies in *Phyllomydas* (Mydidae — Diptera). *Jour. Kansas Ent. Soc.* 16:50-52.  
1944. New Asilidae and Mydidae (Diptera) in the Snow collection. *Canad. Ent.* 76:226-230, 1 pl.  
1950. The Nearctic *Nomoneura* and *Nemomydas* (Diptera: Mydidae). *Wasmann Jour. Biol.* 8:9-37, 2 pls.

HUNTER, W. D.

1901. A catalogue of the Diptera of South America. Part II. *Trans. Amer. Ent. Soc.* 27:121-155.

KARL, E.

1959. Vergleichend-morphologische Untersuchungen der männlichen Kopulationsorgane bei Asiliden (Diptera). *Beitr. z. Ent.*, Berlin-Dahlem 9(5/6):619-680, 54 figs. (Mydidae, pp. 670-671, fig. 50).

JOHNSON, C. W.

1926. A revision of some of the North American species of Mydidae. *Proc. Boston Soc. Nat. Hist.* (1925-1928) 38:131-145, 1 pl.  
1933. A new species of the genus *Mydas*. *Psyche* 39:72.

KERTÉSZ, C.

1909. *Catalogus dipterorum hucusque descriptorum* 4:394 pp. Lipsiae, Budapestini (= Leipzig, Budapest) (Mydidae, pp. 33-47).

LATREILLE, P. A.

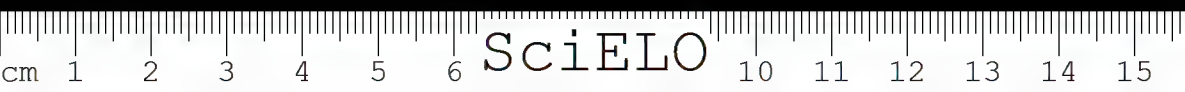
1796. *Précis des caractères des Insectes, disposés dans un ordre naturel*, 179 pp. Paris, "An V".  
1810. *Considérations générales sur l'ordre naturel des animaux*, 444 pp. Paris.

LOEW, H.

1866. *Diptera Americae septentrionalis indigena. Centuria septima.* *Berlin. Ent. Ztschr.* 10:1-54.

MACQUART, J.

1834. *Histoire naturelle des Insectes, Diptères* 1:578 pp., 12 pls. (In N. E. Roret, ed., *Suites à Buffon*), Paris.  
1838. *Diptères exotiques nouveaux ou peu connus* 1(2):5-207, 14 pls. Paris. (Also published in *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts*, Lille 1838 (2):121-323, 14 pls., 1839).  
1848. *Diptères exotiques nouveaux ou peu connus. Suite du 2me. supplément (i.e., 3e. supplément).* *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts*, Lille 1847 (2):161-237, 7 pls. (Also separately printed, pp. 1-77, 7 pls., Paris, 1848).





1850. Diptères exotiques nouveaux ou peu connus. 4e. supplément (part). *Mém. Soc. des Sci., de l'Agr. et des Arts*, Lille 1849:307-465 (text), 466-479 (expl. figs., index), pls. 1-14. (Also separately published, pp. 5-161).

OLIVIER, G. A.

1811. Insectes (i.e., Arthropoda), in Société de Gens de Lettres, de Savans et d'Artistes, *Encyclopédie Methodique. Histoire Naturelle* 8(5):1-360. Paris.

OSTEN SACKEN, C. R.

1878. Catalogue of the described Diptera of North America (ed. 2). *Smithson. Misc. Coll.* 16 (2 = publ. 270): 1-276.
1886. Diptera, Vol. 1 (part), pp. 1-24, 25-48, 49-72, 73-104, 105-128, pls. 1-2 (cont.), in F. D. Godman & O. Salvin, eds., *Biologia Centrali Americana. Zoologia-Insecta-Diptera* 1:378 pp., 6 pls. London.
1895. Midas or Mydas? A contribution to entomological nomenclature. *Berlin. Ent. Ztschr.* 40:345-350.

PARAMONOV, S. J.

1948. Ueber die richtige Stellung der Gattung *Dolichogaster* Macq. (Mydidae) und *Megascelus* Philippi (Apicoceridae) (Diptera). *Rev. Ent.*, Rio de Janeiro 19(1-3): 357-360
1950. A review of Australian Mydidae. *Comm. Sci. and Ind. Res. Organ. Bull.* (Australia) 255:1-32.

PERTY, M.

1833. Insecta Brasiliensia, pp. 125-224, pls. 25-40, in his *Delectus animalium articulatum quae in itinere per Brasiliam annis MDCCCXVII-MDCCCXX jussu et auspiciis Maximiliani Josephi I. Bavariae regis augustissimi peracto collegerunt Dr. J. B. de Spix et Dr. C. F. Ph. de Martius*, 44 + 224 pp., 40 pls. Monachii (= Munich), "1830-1834".

PHILIPPI, R. A.

1865. Aufzählung der chilenische Dipteren. *Verh. zool.-bot. Ges. Wien* 15:595-782, pls. 23-29.

REED, E. P. & F. RUIZ P.

1941. Nuevas especies de Mydidae de Chile (Diptera). *Rev. Ent.*, Rio de Janeiro 12(3):487-493.

SCHINER, I. R.

1868. Diptera, in *Reise der österreichische Fregatte Novara um die Erde*, *Zool. Theil, Diptera* 2(1,B):388 pp., 4 pls. Wien.

SÉGUY, E.

1928. Étude sur quelques Mydidae nouveaux ou peu connus. *Encycl. Ent.* (B) II. *Diptera* 4:129-166, 44 figs.  
(1939). Étude sur quelques Mydidae du Chili. *Rev. Chil. Hist. Nat.* 42 (1938):266-275, fig. 29, pl. 16.  
1951. Deux nouveaux Mydidae chiliens (Dipt.). *Rev. Franc. Ent.*, Paris 18:12-13.

STUARDO ORTIZ, C.

1946. *Catalogo de los dipteros de Chile*, 250 pp. Ministerio de Agricultura, Santiago.

THUNBERG, C. P.

1818. *Mydas gigantea* beskrioven. *Vetensk. Akad. Handl.* 1818:246-248.

WALKER, F.

1854. *List of the specimens of dipterous insects in the collection of the British Museum* 5 (supl. 1):1-330, 2 figs.; 6(supl. 2):331-506, 8 figs. London.

WALSH, B. D.

1864. On certain remarkable or exceptional larvae, coleopterous, lepidopterous and dipterous, with descriptions of several new genera and species, and of several species injurious to vegetation, which have been already published in agricultural journals. *Proc. Boston Soc. Nat. Hist.* (1862-1863) 9:286-308.

WESTWOOD, J. O.

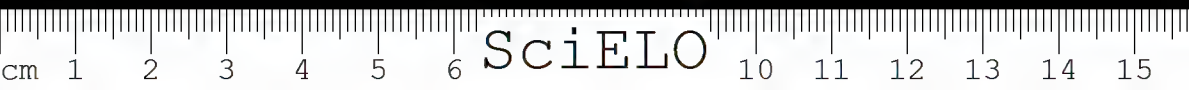
1841. Pls. XIII and XIV. Synopsis of the dipterous family Mydasidae, with descriptions of numerous species, pp. 49-56, pls. 13-14, in his *Arcana Entomologica, or illustrations of new, rare, and interesting insects* 1:192 pp., 48 pls., London, "1845".

WIEDEMANN, C. R. W.

1821. *Diptera exotica*, 244 pp., 1 fig., 2 pls. Kiliae (= Kiel).  
1828. *Aussereuropäische zweiflügelige Insekten* 1: xxxii + 608 pp., 7 pls. Hamm.  
1830. *Aussereuropäische zweiflügelige Insekten* 2: xii + 684 pp., 5 pls. Hamm.  
1831. Monographia generis Midarum. *Verh. Leopold.-Carolin. Akad. Naturf.* 15 [ser. 2, 5(= Verh. 7)] (2):19-56, pls. 52-54.

WILLISTON, S. W.

1886. Dipterological notes and descriptions. *Trans. Amer. Ent. Soc.* 13:287-307.  
1898. Notes and descriptions of Mydidae. *Trans. Kansas Acad. Sci.* 15:53-58.



1900-1901. Supplement (part), pp. 217-248, 1900; pp. 249-264, 265-272, 273-296, 297-328, 329-332, pls. 4-5, pl. 6, figs. 1-6, 1901, in F. D. Godman & O. Salvin, eds., *Biologia Centrali Americana, Zoologia-Insecta-Diptera 1*: 378 pp., 6 pls. London.

ZIKÁN, J. F.

1942. Algo sobre a simbiose de *Mydas* com *Atta*. *Rodriguésia*, Rio de Janeiro 15:1-7, 1 pl.

1944. Novas observações sobre a biologia de *Mydas* (Dipt.) e sua relação com os formigueiros de saúva. *Bol. Minist. Agric.*, Rio de Janeiro 33:43-55. (Not seen).

# INDEX

|   |       |
|---|-------|
| abdominalis Adams, 1904, <i>Mydas</i> .....                                       | 34.10 |
| albocinctus (Blanchard), 1852 (Cephalocera), <i>Mitrodetus</i> .....              | 34.5  |
| annularis Gerstaecker, 1868, <i>Mydas</i> .....                                   | 34.6  |
| annulicornis Westwood, 1841 (Midas), <i>Mydas</i> .....                           | 34.7  |
| apicalis Wiedemann, 1830 (Midas), <i>Mydas</i> .....                              | 34.7  |
| apicalis Wiedemann of Schiner, 1868, <i>Paramydas</i> .....                       | 34.12 |
| Apiophora Philippi, 1865 .....  | 34.3  |
| argyrostomus Gerstaecker, 1868, <i>Mydas</i> .....                                | 34.7  |
| athamus (Séguy), 1928 (Ectyphus), <i>Opomydas</i> .....                           | 34.11 |
| atratus (Walker), 1854 (Midas), <i>Messiasia</i> .....                            | 34.4  |
| autuorii d'Andretta, 1951, <i>Mydas</i> .....                                     | 34.7  |
| basalis Westwood, 1841 (Midas), <i>Mydas</i> .....                                | 34.7  |
| belus (Séguy), 1928 ( <i>Lampromydas</i> ), <i>Mydas</i> .....                    | 34.7  |
| bequaerti (Johnson), 1926 ( <i>Leptomydas</i> ), <i>Nemomydas</i> .....           | 34.10 |
| bitaeniatus Bellardi, 1861, <i>Mydas</i> .....                                    | 34.7  |
| bonariensis Guérin-Méneville, 1835, <i>Mydas</i> .....                            | 34.7  |
| brachyrhynchus (Osten Sacken), 1886 ( <i>Leptomidas</i> ), <i>Nemomydas</i> ..... | 34.10 |
| brederi Curran, 1951, <i>Mydas</i> .....  | 34.7  |
| brevicornis (Wiedemann), 1821 ( <i>Mydas</i> ), <i>Dolichogaster</i> .....        | 34.3  |
| bruesii Johnson, 1926, <i>Phyllomydas</i> .....                                   | 34.12 |
| californica (Hardy), 1950 ( <i>Nomoneura</i> ), <i>Pseudonomoneura</i> .....      | 34.12 |
| carrerai d'Andretta, 1951, <i>Messiasia</i> .....                                 | 34.4  |
| Ceratomydas Williston, 1898 .....   | 34.3  |
| chilensis Reed & Ruiz, 1941, <i>Mitrodetus</i> .....                              | 34.5  |
| chrysites (Osten Sacken), 1886 (Midas), <i>Heteromydas</i> .....                  | 34.3  |
| cingulatus Williston, 1898, <i>Mydas</i> .....                                    | 34.7  |
| claripennis Williston, 1898, <i>Mydas</i> .....                                   | 34.7  |
| cleptes Osten Sacken, 1886 (Midas), <i>Mydas</i> .....                            | 34.10 |
| coerulescens Olivier, 1811, <i>Mydas</i> .....                                    | 34.7  |
| concinus (Coquillett), 1904 ( <i>Leptomydas</i> ), <i>Pseudonomoneura</i> .....   | 34.12 |
| crassipes Westwood, 1841 (Midas), <i>Mydas</i> .....                              | 34.8  |
| cubana Curran, 1951, <i>Mydas</i> .....   | 34.8  |
| currani Hardy, 1943, <i>Phyllomydas</i> .....                                     | 34.12 |

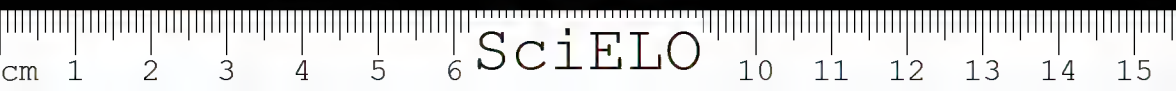


|   |       |
|---|-------|
| <i>dalcyana</i> d'Andretta, 1951, <i>Messiasia</i> .....                            | 34.4  |
| <i>decor</i> (Osten Sacken), 1886 (Midas), <i>Messiasia</i> .....                   | 34.4  |
| <i>dentitarsis</i> (Macquart), 1850 (Cephalocera), <i>Mitrodetus</i> .....          | 34.5  |
| <i>dimidiatus</i> (Philippi), 1865 (Cephalocera), <i>Mitrodetus</i> .....           | 34.5  |
| <i>dives</i> Westwood, 1841 (Midas), <i>Mydas</i> .....                             | 34.8  |
| <i>Dolichogaster</i> Macquart, 1848 .....   | 34.3  |
| <i>elegans</i> (Philippi), 1865 (Cephalocera), <i>Mitrodetus</i> .....              | 34.5  |
| <i>elvirae</i> Reed & Ruiz, 1941, <i>Apiophora</i> .....                            | 34.3  |
| <i>eupolis</i> Séguy, 1928, <i>Mydas</i> .....                                      | 34.8  |
| <i>fraudulentus</i> Williston, 1898, <i>Ceratomydas</i> .....                       | 34.3  |
| <i>fulvipes</i> Walsh, 1864, <i>Mydas</i> .....                                     | 34.10 |
| <i>giganteus</i> Thunberg, 1818, <i>Mydas</i> .....                                 | 34.7  |
| <i>gracilis</i> Macquart, 1834, <i>Mydas</i> .....                                  | 34.8  |
| <i>gracilis</i> Macquart of d'Andretta, 1951, <i>Mydas</i> .....                    | 34.7  |
| <i>gracilis</i> Macquart of Loew, 1878, <i>Mydas</i> .....                          | 34.8  |
| <i>heros</i> Perty, 1833 (Midas), <i>Mydas</i> .....                                | 34.8  |
| <i>Heteromydas</i> Hardy, 1944 .....  | 34.3  |
| <i>hirta</i> (Coquillett), 1904 ( <i>Leptomydas</i> ), <i>Pseudonomoneura</i> ..... | 34.12 |
| <i>igniticornis</i> (Bigot), 1857 ( <i>Mydas</i> ), <i>Paramydas</i> .....          | 34.12 |
| <i>interruptus</i> Wiedemann, 1830 (Midas), <i>Mydas</i> .....                      | 34.8  |
| <i>intonsus</i> Hardy, 1950, <i>Nemomydas</i> .....                                 | 34.11 |
| <i>iopterus</i> (Wiedemann), 1828 (Midas), <i>Dolichogaster</i> .....               | 34.3  |
| <i>kuscheli</i> Séguy, 1951, <i>Midacritus</i> .....                                | 34.5  |
| <i>lamia</i> (Séguy), 1928 ( <i>Nomoneura</i> ), <i>Nemomydas</i> .....             | 34.11 |
| <i>Lampromydas</i> Séguy, 1928 .....  | 34.6  |
| <i>lanci</i> d'Andretta, 1951, <i>Messiasia</i> .....                               | 34.4  |
| <i>lavatus</i> Gerstaecker, 1868, <i>Mydas</i> .....                                | 34.8  |
| <i>leucops</i> Wiedemann, 1830 (Midas), <i>Mydas</i> .....                          | 34.8  |
| <i>leucotrichus</i> (Philippi), 1865 (Cephalocera), <i>Mitrodetus</i> .....         | 34.5  |
| <i>limbatus</i> (Williston), 1886 ( <i>Ectyphus</i> ), <i>Opomydas</i> .....        | 34.11 |
| <i>lividus</i> Curran, 1953, <i>Mydas</i> .....                                     | 34.8  |
| <i>lugens</i> (Philippi), 1865 (Midas), <i>Paramydas</i> .....                      | 34.12 |
| <i>luteipennis</i> Loew, 1866 (Midas), <i>Mydas</i> .....                           | 34.9  |
| <i>matthei</i> Reed & Ruiz, 1941, <i>Mitrodetus</i> .....                           | 34.6  |
| <i>Messiasia</i> d'Andretta, 1951 .....   | 34.4  |
| <i>microglossa</i> Séguy, 1951, <i>Mitrodetus</i> .....                             | 34.6  |
| <i>Midacritus</i> Séguy, 1938 .....   | 34.5  |
| <i>Midas</i> , emend. ....  | 34.6  |
| <i>militaris</i> Gerstaecker, 1868, <i>Mydas</i> .....                              | 34.9  |
| <i>mirandai</i> d'Andretta & Carrera, 1951, <i>Rhopalia</i> .....                   | 34.13 |
| <i>Mitrodetus</i> Gerstaecker, 1868 .....   | 34.5  |
| <i>Mydas</i> Fabricius, 1794 .....  | 34.6  |
| <i>mystaceus</i> Wiedemann, 1830 (Midas), <i>Mydas</i> .....                        | 34.9  |





|  |           |
|--|-----------|
| <i>Nemomydas</i> Curran, 1934 .....  | 34.10     |
| <i>nitidulus</i> Olivier, 1811, <i>Mydas</i> .....                                 | 34.9      |
| <i>Nomoneura</i> , authors .....   | 34.12     |
| <i>notospila</i> (Wiedemann), 1828 ( <i>Midas</i> ), <i>Messiasia</i> .....        | 34.4      |
| <br><i>Opomydas</i> Curran, 1934 .....   | <br>34.11 |
| <i>panamensis</i> (Curran), 1934 ( <i>Nomoneura</i> ), <i>Nemomydas</i> .....      | 34.11     |
| <i>pantherinus</i> (Gerstaecker), 1868 ( <i>Leptomydas</i> ), <i>Nemomydas</i> ... | 34.11     |
| <i>Paramydas</i> Carrera & d'Andretta, 1948 .....                                  | 34.12     |
| <i>paulseni</i> Philippi, 1865, <i>Apiophora</i> .....                             | 34.3      |
| <i>perpolitus</i> (Johnson), 1933 ( <i>Mydas</i> ), <i>Messiasia</i> .....         | 34.4      |
| <i>pertenuis</i> (Johnson), 1926 ( <i>Mydas</i> ), <i>Messiasia</i> .....          | 34.4      |
| <i>phyllocerus</i> Bigot, 1880, <i>Phyllomydas</i> .....                           | 34.12     |
| <i>Phyllomydas</i> Bigot, 1880 .....   | 34.12     |
| <i>polita</i> (Wiedemann), 1828 ( <i>Midas</i> ), <i>Messiasia</i> .....           | 34.4      |
| <i>praegrandis</i> Austen, 1909, <i>Mydas</i> .....                                | 34.8      |
| <i>Pseudonomoneura</i> Bequaert, 1961 .....  | 34.12     |
| <i>punicea</i> (Séguy), 1928 ( <i>Mydas</i> ), <i>Messiasia</i> .....              | 34.4      |
| <br><i>quadrilineatus</i> Williston, 1898, <i>Mydas</i> .....                      | <br>34.9  |
| <i>reedi</i> Reed & Ruiz, 1941, <i>Mitrodetus</i> .....                            | 34.6      |
| <i>Rhopalia</i> Macquart, 1838 .....   | 34.13     |
| <i>rubidapex</i> Wiedemann, 1830 ( <i>Midas</i> ), <i>Mydas</i> .....              | 34.9      |
| <i>rubrocincta</i> (Blanchard), 1852 ( <i>Mydas</i> ), <i>Apiophora</i> .....      | 34.3      |
| <i>rufiventris</i> Loew, 1866 ( <i>Midas</i> ), <i>Mydas</i> .....                 | 34.10     |
| <i>rufiventris</i> Macquart, 1850, <i>Mydas</i> .....                              | 34.9      |
| <br><i>scitulus</i> (Williston), 1886 ( <i>Mydas</i> ), <i>Phyllomydas</i> .....   | <br>34.12 |
| <i>senilis</i> (Westwood), 1841 ( <i>Midas</i> ), <i>Nemomydas</i> .....           | 34.11     |
| <i>sponsor</i> (Osten Sacken), 1886 ( <i>Leptomidas</i> ), <i>Nemomydas</i> .....  | 34.11     |
| <i>stuardoanus</i> Séguy, 1938, <i>Midacritus</i> .....                            | 34.5      |
| <i>subinterruptus</i> Bellardi, 1861, <i>Mydas</i> .....                           | 34.9      |
| <br><i>testaceiventris</i> Macquart, 1850, <i>Mydas</i> .....                      | <br>34.9  |
| <i>thereviformis</i> Séguy, 1938, <i>Mitrodetus</i> .....                          | 34.6      |
| <i>tibialis</i> Wiedemann, 1828 ( <i>Midas</i> ), <i>Mydas</i> .....               | 34.9      |
| <i>tricinctus</i> Bellardi, 1861, <i>Mydas</i> .....                               | 34.10     |
| <i>tricolor</i> Wiedemann, 1830 ( <i>Midas</i> ), <i>Mydas</i> .....               | 34.10     |
| <br><i>venosus</i> (Loew), 1866 ( <i>Midas</i> ), <i>Nemomydas</i> .....           | <br>34.11 |
| <i>ventralis</i> Gerstaecker, 1868 ( <i>Midas</i> ), <i>Mydas</i> .....            | 34.10     |
| <i>virgatus</i> Wiedemann, 1830 ( <i>Midas</i> ), <i>Mydas</i> .....               | 34.10     |
| <i>vittatus</i> Macquart, 1850, <i>Mydas</i> .....                                 | 34.9      |
| <br><i>wagenknechti</i> Reed & Ruiz, 1941, <i>Midacritus</i> .....                 | <br>34.5  |
| <i>xanthopterus</i> Loew, 1866 ( <i>Midas</i> ), <i>Mydas</i> .....                | 34.10     |
| <br><i>zikani</i> d'Andretta, 1951, <i>Messiasia</i> .....                         | <br>34.5  |



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

35a

FAMILY LEPTOGASTRIDAE<sup>1</sup>

CHARLES H. MARTIN

*Department of Entomology**Oregon State University**Corvallis, Oregon*

The Leptogastridae, a family of Diptera formerly in the Asilidae, was recognized by Martin in 1968. The family is characterized by a long slender abdomen attached to the thorax at a 45° angle, a fenestra almost completely subdivides sternite 2 into two sclerites, the median swollen lobes of the posterior pronotum are set close together with an external pit or macula between them marking the position of internal phragmata 1, and the pulvilli and alulae are absent. The primitive aedeagi resemble those of the Asilidae, but the most specialized aedeagi of the Leptogastridae are very different from those of the Asilidae. Martin (1968) interpreted this as indicative that the two taxa represent two separate phyletic lines of equal value. The hypandrium and basistyli are coalesced in 75 per cent of the Leptogastridae, while in the Asilidae the hypandrium is more frequently reduced rather than coalesced with the basistyli. Many characters are common to all species of Leptogastridae, while in the Asilidae no one character is common to all species.

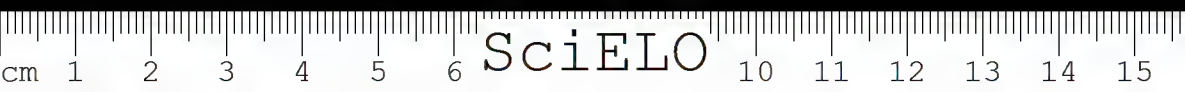
Three hundred species of the Leptogastridae of the world are put into 17 genera. In Mexico and the Neotropical realm 57 species in seven genera are known. The writer has at hand many undescribed species both from Mexico and South America.

The small number of described Leptogastridae for the world, as compared with over 5,000 species in the Asilidae, seems to be correlated with an inability to radiate from their uniform environment of grass into other niches. Also, correlated with the uniform environment are fewer and less complex characters than are found in the Asilidae which occupy a large number of niches.

The adult Leptogastridae are more frequently associated with tussock-type grass, although some seek other grasses, including sparse dried grass. A few are found either in low shrubs, or on the tips of dead twigs of the lower branches of trees.

Only soft, immobile prey is captured by the Leptogastridae while making their helicopter-like flight through grass. The mouth parts are extremely reduced and weak.

1. Financial support by U.S. National Science Foundation Grant GB-4541 is acknowledged.



The adults of *Beameromyia* Martin sometimes congregate in large numbers within a small area. This suggests that some larvae feed on grass roots.

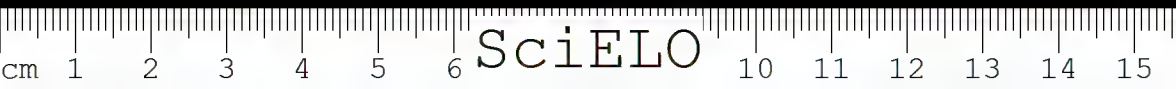
*Leptogaster audouinii* Macquart (1838:155) was described without a type-locality, although some authors report it from South America. So far as I know, no Leptogastridae from South America has a long petiolate anal cell as Macquart describes. Likely *L. audouinii* was from either the Ethiopian or the Oriental realms.

Type specimens of Mexican and Neotropical species of Leptogastridae were studied by the writer in ten museums. These species are indicated by "Type *vid.*", with the abbreviation indicating the museum where the type was seen. When only the location is known, is indicated by "Type" and the abbreviation indicating the name of the museum. The following list gives the abbreviations for the museums:

|       |  |
|-------|--|
| AMNH  | American Museum of Natural History, New York   |
| BM    | British Museum (Natural History), London   |
| MCZ   | Museum of Comparative Zoology, Harvard University, Charleston, Massachusetts         |
| OXF   | Hope Museum, Oxford, England   |
| PARIS | Muséum National d'Histoire Naturelle, Paris  |
| SAO   | Departamento de Zoologia da Secretaria da Agricultura do Estado de São Paulo, Brazil |
| STUT  | Stettiner Zoologischer Museum, Stuttgart, Germany                                    |
| TORO  | Istituto e Museo di Zoologia, Università di Torino, Turin, Italy                     |
| USNM  | United States National Museum, Washington, D. C.                                     |
| WIEN  | Naturhistorisches Museum, Zoologische Sammlung, Vienna, Austria.                     |

#### Genus LEPTOGASTER Meigen

- LEPTOGASTER Meigen, 1803:269. Type-species, *Asilus tipuloides* Fabricius (mon.) = *cylindrica* (De Geer).
- Gonypes* Latreille, 1805:309. Type-species, *Asilus tipuloides* Fabricius (mon.) = *cylindrica* (De Geer).
- ANNULIPES Walker, 1855:772. Type-locality: Brazil, Pará (Belém). Distr. — Brazil (Pará). Type *vid.* BM.
- APICALIS Enderlein, 1914:153. Type-locality: Ecuador, Santa Inéz. Distr. — Ecuador. Type, STUT.
- BASALIS Walker, 1855:770. Type-locality: Brazil, Amazonas, Ega (= Tefé). Distr. — Brazil.



- BENGRII Farr, 1963:10. Type-locality: Jamaica, Portland, Hardwar Gap, trail to Caledonia Peak. Distr. — Jamaica. Type *vid.* USNM.
- BICOLOR (Macquart), 1848:191 (1848:31), pl. 3, fig 6 (*Gonypes*). Type-locality: "Rio Negro". Distr. — "Rio Negro".
- CINGULIPES Walker, 1849:131. Type-locality: Brazil, Amazon. Distr. — Brazil. Type, not in BM.
- CLAVISTYLA (Rondani), 1848:96 (*Gonypes*). Type-locality: "Brazil". Distr. — Brazil.
- CONCINNATA Williston, 1901:300. Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero). Type *vid.* BM.
- CROCEA Williston, 1901:300. Type-locality Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero). Type *vid.* BM.
- DISTINCTA Schiner, 1867:375. Type-locality: "Brazil". Distr. — Brazil. Type *vid.* WIEN.
- FERRUGINEUS Walker, 1855:771. Type-locality: Brazil, Pará (Belém). Distr. — Brazil (Pará). Type *vid.* BM.
- FERVENS Wiedemann, 1830:646. Type-locality: "Mexico". Distr. — Mexico. Type in Berlin?
- truquii* Bellardi, 1861:187. Type-locality: Mexico, Jantepec. Distr. — Mexico. Type *vid.* TORO.
- FUSCIPENNIS Blanchard, 1852:371. Type-locality: "Chile". Distr. — Chile. *nigrescens* Blanchard, 1852:371 (lapsus).
- INTIMA Williston, 1901:301. Type-locality: Mexico, Guerrero, Xucumanatlán. Distr. — Mexico (Guerrero). Type *vid.* BM.
- JAMAICENSIS Farr, 1963:9. Type-locality: Jamaica, St. Thomas, Morant Bay Road, 14.5 miles east of Kingston. Distr. — Jamaica. Type *vid.* USNM.
- KAMERLACHERI Schiner, 1867:358. Type-locality: "Brazil". Distr. — Brazil. Type *vid.* WIEN, abdomen missing.
- LERNERI Curran, 1953:1. Type-locality: Bahama Islands, South Bimini Island. Distr. — Bahama Islands. Type *vid.* AMNH.
- MARTINI Farr, 1963:13. Type-locality: Jamaica, St. Thomas, 12.5 miles east of Kingston. Distr. — Jamaica. Type *vid.* USNM.
- MICROPYGIALIS Williston, 1901:301. Type-locality: Mexico, Guerrero, La Venta. Distr. — Mexico (Guerrero). Type *vid.* BM.
- MULTICINCTA Walker, 1851:155. Type-locality: "South America". Distr. South America. Type *vid.* BM.
- NIGER Wiedemann, 1828:533. Type-locality: "Brazil". Distr. — Brazil (São Paulo). Type *vid.* WIEN.
- nigra* Williston, 1891:68 (lapsus).
- NUBECULOSA Bigot, 1878:445. Type-locality: "Colombia". Distr. — Colombia. Type *vid.* OXF.
- OBSCURIPES Loew, 1862:191 (Cent. 2, n° 13). Type-locality: "Cuba". Distr. — United States, Cuba.
- ramoni* Jaennicke, 1867:354. Type-locality: "Cuba".
- PUBESCENS Curran, 1934:323. Type-locality: Guyana, Kartabo. Distr. — Guyana. Type *vid.* AMNH.



- ROEDERI Williston, 1896:304. Type-locality: West Indies, St. Vincent Island. Distr. — St. Vincent Island. Type, in BM.
- RUBIDA Wiedemann, 1821:242. Type-locality: "Brazil". Distr. — Brazil. Type *vid.* WIEN.
- rubida* Wiedemann of Williston, 1901:299, Mexico (misident.). Specimen *vid.* BM.
- testacea* Loew of Williston, 1901:299, Mexico (misident.).
- SPINITARSIS Bromley, 1951:4. Type-locality: Panama, Barro Colorado Island, Canal Zone. Distr. — Panama (Canal Zone). Type *vid.* USNM.
- TITANUS Carrera, 1958:147. Type-locality: Brazil, São Paulo, Salesópolis. Distr. — Brazil (São Paulo, Santa Catarina). Type *vid.* SAO.
- TORNOWII Brèthes, 1904:327. Type-locality: "Argentina". Distr. — Argentina.
- TRIANGULATA Williston, 1901:299, pl. 5, figs. 13, 13a. Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero: Morelos). Type *vid.* BM.
- TROPICA Curran, 1934:329. Type-locality: Guyana, Kartabo. Distr. — Guyana. Type, AMNH.
- VITRIPENNIS Schiner, 1867:356. Type-locality: "Brazil". Distr. — Brazil (Santa Catarina). Type *vid.* WIEN.
- VORAX Curran, 1934:329. Type-locality: Guyana, Tumatumari. Distr. — Guyana. Type, AMNH.

#### Genus PSILONYX Alrich

- PSILONYX Aldrich, 1923:5. Type-species, *Leptogaster annulatus* Say (orig. des.).
- ANNULATUS (Say), 1823:75. Type-locality: U.S.A., Pennsylvania. Distr. — U.S.A.
- annulatus* Say of Carrera, 1944:92, Brazil, is misident. Specimens *vid.*
- ARAWAK Farr, 1963:7. Type-locality: Jamaica, St. Andrew, Ferry. Distr. — Jamaica. Type *vid.* USNM.
- MACROPYGIALIS (Williston), 1901:301, pl. 5, fig. 14 (*Leptogaster*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Tabasco). Type *vid.* BM.
- MAGNICAUDA (Curran), 1934:328 (*Leptogaster*). Type-locality: Guyana, Kartabo. Distr. — Guyana. Type *vid.* AMNH.
- VENUSTUS (Bromley), 1929:274 (*Leptogaster*). Type-locality: "Cuba". Distr. — Cuba. Type *vid.* MCZ.

#### Genus BEAMEROMYIA Martin

- BEAMEROMYIA Martin, 1957:355. Type-species, *Leptogaster pictipes* Loew (orig. des.). Type, AMNH.
- Leptogaster* (*Beameromyia*); Hull *nec* Martin, 1962: misident.



- CHRYSOPE Martin, 1957a:357. Type-locality: U.S.A., Florida. Distr. — U.S.A. (Florida), Jamaica. Type *vid.* AMNH.
- CUBENSIS (Bigot), 1857:332 (*Gonypes*). Type-locality: "Cuba". Distr. — Cuba. Type *vid.* PARIS.
- DORSALIS (Williston), 1901:301 (*Leptogaster*). Type-locality: Mexico, Guerrero, Xucumanatlán. Distr. — Mexico (Guerrero). Type *vid.* BM.
- GRAMINICOLA Farr, 1963:16. Type-locality: Jamaica, Kingston, Palisadoes. Distr. — Jamaica. Type *vid.* USNM.
- INSULARIA Martin, 1957b:3. Type-locality: Bahama Islands, Turks and Caicos Island. Distr. — Bahama Islands. Type *vid.* AMNH.
- PICTIPES (Loew), 1862:189 (*Leptogaster*). Type-locality: U.S.A., Illinois. Distr. — U.S.A. Type *vid.* MCZ.
- pictipes* Loew of Johnson, 1919:431, Jamaica, (misident). Specimen *vid.* MCZ.
- PUNICEA Martin, 1957a:362. Type-locality: U.S.A., Arizona. Distr. — U.S.A., Mexico (Chiapas). Type *vid.* AMNH.

#### Genus SCHILDIA Aldrich

- SCHILDIA Aldrich, 1923:4. Type-species, *microthorax* Aldrich (orig. des.).
- Shannomyioleptus* Carrera, 1944:87. Type-species, *fragilis* Carrera (orig. des.).
- Leptogaster* (*Shannomyioleptus*); Hull, 1962:319, misident.
- FRAGILIS (Carrera), 1944:87 (*Shannomyioleptus*). Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso). Type *vid.* SAO.
- GRACILLIMUS (Walker), 1855:722 (*Leptogaster*). Type-locality: Brazil, Pará (Belém) Distr. — Brazil (Pará). Type *vid.* BM.
- JAMAICENSIS Farr, 1962:191. Type-locality: Jamaica, St. Andrew, Long Mountain. Distr. — Jamaica. Type *vid.* USNM.
- MICROTHORAX Aldrich, 1923:4. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica (San Mateo). Type *vid.* USNM.
- sp.*, Guatemala, Martin, 1965:114.
- sp.*, Mexico, Baja California (New locality record for genus).

#### Genus APACHEKOLOS Martin

- APACHEKOLOS Martin, 1957:352. Type-species, *Leptogaster scapularis* Bigot (orig. des.).
- Leptogaster* (*Apachekolos*); Hull *nec* Martin, 1962:301, misident.
- CLAVIPES (Johnson), 1897:273 (*Leptogaster*, nom. nov. for *longipes* Johnson). Type-locality: "Jamaica". Distr. — Jamaica, Bahama Islands. Type *vid.* MCZ.
- longipes* Johnson, 1894:273 (*Leptogaster*, preocc. Walker, 1859).
- acus* Martin, 1957b:1. Type-locality: Bahama Islands. Type *vid.* AMNH.
- CRINITA Martin, 1957a:354. Type-locality: United States, New Mexico. Distr. — U.S.A., Mexico (San Luis Potosí). Type *vid.* AMNH.

### Genus EURHABDUS Aldrich

- EURHABDUS Aldrich, 1923:2. Type-species, *zephyreus* Aldrich (orig. des.).  
ZEPHYREUS Aldrich, 1923:3, fig. 1 (whole insect), 2 (wing), also fig. 3.  
Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica (San Mateo). Type *vid.* USNM.  
*sp.*, Jamaica, Farr, 1963:20.

### Genus LEPTOPTEROMYIA Williston

- LEPTOPTEROMYIA Williston, 1907:1. Type-species, *gracilis* Williston (sub. mon., Williston, 1908:195, fig. 77. 35). (See Hardy, 1947, Carrera 1947).  
AMERICANA Hardy, 1947:74. Type-locality U.S.A., Texas, Hidalgo. Distr. U.S.A. (Texas).  
GRACILIS Williston, 1908: p. 195, fig. 77.35. Type-locality: "Brazil". Syn. *willistoni* Hermann, 1924:143. Neotype, Carrera, 1947:89-96.

### Genus SYSTELLOGASTER Hermann

- SYSTELLOGASTER Hermann, 1914:149. Type-species, *Euscelidia fascipennis* Schiner (orig. des.).  
*aurantiaca* Hermann, 1926:151. Locality: "Peru". *Nomen nudum*. Specimen marked "Type" at MUN, but not described.  
?BREVIVENTRIS (Rondani), 1848:96 (*Gonypes*). Type-locality: "Rio Negro". Distr. — Brazil.  
CALCEOLATA (Bigot), 1878:430 (*Lasiocnemus*). Type-locality: Brazil, Amazon. Distr. — Brazil. Type *vid.* OXF.  
FASCIPENNIS (Schiner), 1867:359 (*Euscelidia*). Type-locality: "Brazil". Distr. — Brazil (Santa Catarina). Type *vid.* WIEN.

### LITERATURE CITED

- ALDRICH, J. M.  
1923. New genera of two-winged flies of the subfamily Leptogastrinae of the family Asilidae. *Proc. U. S. Nat. Mus.* 62:1-6, 3 figs.  
BELLARDI, L.  
1861. *Saggio di ditterologia messicana. Parte II.* Pt. 2, 99 pp., 2 pls. Torino. (Also published in *Mem. R. Accad. delle Sci. Torino* 21:103-199, 2 pls., 1864).  
BIGOT, J. M. F.  
1857. Diptera, pp. 328-349, in *R. de la Sagra: Historia fisica, político y natural de la Isla de Cuba* 7:371 pp. Paris, "1856".  
1878. Diptères nouveaux ou peu connus. Tribu des Asilidi. *Ann. Soc. Ent. France* 8:31-48, 213-240, 401-446.

BLANCHARD, E.

1852. Dipteros, pp. 327-468, in C. Gay: *Historia fisica y politica de Chile*, *Zoologia* 7:471 pp. Paris. (Asilidae, pp. 337-339).

BROMLEY, S. W.

1929. The Asilidae of Cuba (Diptera). *Ann. Ent. Soc. America* 22:272-294, pl. 1.  
1951. Asilid notes (Diptera), with descriptions of thirty-two new species. *Amer. Mus. Nov.* 1532:36 pp., 8 figs.

CARRERA, M.

1944. Chave sinóptica da subfamília Leptogastrinae (Diptera, Asilidae), com a descrição de um novo gênero e uma nova espécie. *Pap. Avulsos Dep. Zool. S. Paulo* 4:85-94, 3 figs.  
1947. Sobre o gênero *Leptopteromyia* Williston, 1908 (Diptera, Asilidae). *Pap. Avulsos Dep. Zool. S. Paulo* 8:89-96, 7 figs.  
1958. Dipteros de Boracéia. I. Asilidae. *Pap. Avulsos Dep. Zool. S. Paulo* 13:147.

CURRAN, C. H.

1934. In C. H. Curran *et al.*: The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Amer. Mus. Nat. Hist.* 66:287-523. (Asilidae, pp. 327-360).  
1953. The Asilidae and Mydidae of the Bimini Islands, British West Indies (Diptera). *Amer. Mus. Nov.* 1644:6 pp.

ENDERLEIN, G.

1914. Dipterologische Studien. XII. Zur Kenntnis der Asiliden, subfamilien Dasypogoninae und Archilaphriinae. *Wien. Ent. Zeit.* 33:151-174.

FARR, T. H.

1962. A new species of *Schildia* from Jamaica (Diptera: Asilidae). *Florida Ent.*, Gainesville 45:191-194, 8 figs.  
1963. The robber-flies of Jamaica. The subfamily Leptogastrinae. *Bull. Inst. Jamaica, Sci. Ser.* 13(1):5-22.

HERMANN, F.

1914. H. Sauter's Formosa Ausbeute. Mydidae et Asilidae (Dasypogoniae, Laphriinae et Leptogastrinae) (Dipt.). *Ent. Mitt.* 3:33-44, 83-95, 102-112, 129-136, figs. 1-11.  
1926. Die Gattungen der Leptogastrinen (Dipt.). *Verh. zool.-bot. Ges. Wien* (1924-1925):153-191, 9 figs.

JOHNSON, C. W.

1894. List of the Diptera of Jamaica with descriptions of new species. *Proc. Acad. Nat. Sci. Philadelphia* 1894:271-281. (Asilidae, pp. 273-274).  
1897. Some notes and descriptions of new Leptidae. *Ent. News* 8:177-120. (Asilidae, p. 120).

LATREILLE, P. A.

1805. *Histoire naturelle, générale et particulière, des crustacés et des insectes* 14:1-432. Paris. (Asilidae, pp. 305-309, cccclxxvii).



LOEW, H.

1862. *Diptera Americae septentrionalis indigena. Centuria secunda. Berlin. Ent. Zeitschr.* 6:185-232. (Asilidae, pp. 188-193). (Also published in *Diptera Americae septentrionalis indigena*, vol. 1 (Centuriae 1-5), 266 pp., Berlin).

MACQUART, J.

1848. *Diptères exotiques nouveaux ou peu connus. Suite du 2me. supplément (i.e., 3e. supplément). Mém. Soc. Roy. des Sci., de l'Agr. et des Arts, Lille 1847(2):161-237, 7 pls.* (Also separately published, *Supplément 3: pp. 1-77, 7 pl., Paris, 1848.* (Asilidae, pp. 19-31 (179-191), pls. 1-3).

MARTIN, C. H.

- 1957a. A revision of the Leptogastrinae in the United States (Diptera: Asilidae). *Bull. Amer. Mus. Nat. Hist.* 3:347-385.
- 1957b. The Asilidae of the Bahama Islands, with descriptions of two new species. *Amer. Mus. Nov.* 1847:7 pp.
1965. Generic and subfamily changes, new synonymy, a new species, and notes on Asilidae (Diptera). *Jour. Kansas Ent. Soc.* 38:111-134, 2 pls., 24 figs.
1968. The new family Leptogastridae (The Grass Flies) compared with the Asilidae (Robber Flies) (Diptera). *Jour. Kansas Ent. Soc.* 41(1):70-100, 137 figs.

MEIGEN, J. W.

1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Mag. f. Insektenkunde* 2:259-281. (Asilidae, pp. 269-270).

RONDANI, C.

1848. Esame di varie specie d'insetti ditteri brasiliani. *Studi Ent., Turin* 1:63-112. (Asilidae, pp. 89-97).

SAY, T.

1823. Descriptions of dipterous insects of the United States. *Jour. Acad. Nat. Sci. Philadelphia* 3:9-54, 73-104. (Asilidae, pp. 47-53, 73-74).

SCHINER, J. R.

1867. Neue oder weniger bekannte Asiliden des k. zoologischen Hofcabinetes in Wien. Ein Beitrag zur Kenntniss der Asiliden. *Verh. zool.-bot. Ges. Wien* 17:355-412.

WALKER, F.

1849. *List of specimens of dipterous insects in the collection of the British Museum* 4:689-1172, London.
1851. *Insecta Saundersiana: or characters of undescribed insects in the collection of William Wilson Saunders, Esq.* 1:76-156, 2 pls. (Asilidae, pp. 84-156, pls. 3-4).
1855. *List of the specimens of dipterous insects in the collection of the British Museum, Suppl.* 3:507-775, 5 pls. (All Asilidae).



WIEDEMANN, C. R. W.

1821. *Diptera exotica* (Ed. 2). 244 pp., 2 pls., 1 fig. Kiliae (= Kiel).  
 1828. *Aussereuropäische zweiflügelige Insekten* 1:608 pp., 7 pls.  
 (Asilidae, pp. 364-536, 568-572, 584-588).  
 1830. *Aussereuropäische zweiflügelige Insekten* 2:684 pp. (Asilidae,  
 pp. 643-647).

WILLISTON, S. W.

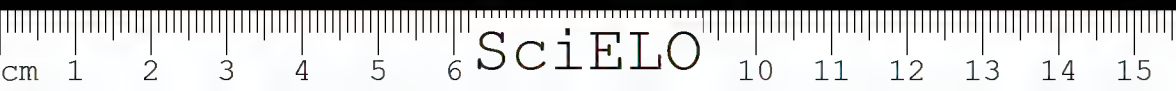
1891. Catalogue of the described species of South American Asilidae.  
*Trans. Amer. Ent. Soc.* 18:67-91.  
 1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc.*  
*London* 1896:253-308, 346-446, pls. 8-14. (Asilidae, pp. 304-306, pl.  
 10, fig. 79, pl. 11, fig. 80).  
 1901. In *Biologia Centrali-Americana, Diptera* 1:298-332 (suppl.), pl.  
 5, figs. 13-14, pl. 6, figs. 1-6.  
 1907. Dipterological notes. *Jour. New York Ent. Soc.* 15:1-2.  
 1908. *Manual of North American Diptera*, 3rd ed., 405 pp. New  
 Haven, Connecticut. (Asilidae, pp. 192-204, figs. 73-77).

# INDEX

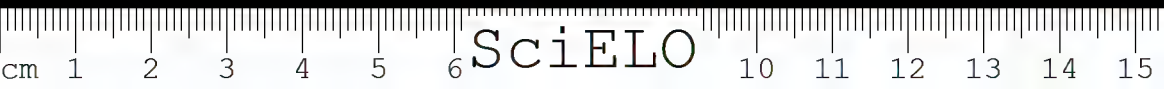
|  |       |
|--|-------|
| <i>acus</i> Martin, 1957, <i>Apachekolos</i> .....                                   | 35a.5 |
| <i>americana</i> Hardy, 1947, <i>Leptopteromyia</i> .....                            | 35a.6 |
| <i>annulatus</i> (Say), 1823 ( <i>Leptogaster</i> ), <i>Psilonyx</i> .....           | 35a.4 |
| <i>annulatus</i> Say of Carrera, 1944, <i>Psilonyx</i> , misident. ....              | 35a.4 |
| <i>annulipes</i> Walker, 1855, <i>Leptogaster</i> .....                              | 35a.2 |
| <i>Apachekolos</i> Martin, 1957 .....  | 35a.5 |
| <i>apicalis</i> Enderlein, 1914, <i>Leptogaster</i> .....                            | 35a.2 |
| <i>arawak</i> Farr, 1963, <i>Psilonyx</i> .....                                      | 35a.4 |
| <i>aurantiaca</i> Hermann, 1926, <i>Systellogaster</i> .....                         | 35a.6 |
| <i>basalis</i> Walker, 1855, <i>Leptogaster</i> .....                                | 35a.2 |
| <i>Beameromyia</i> Martin, 1957 .....  | 35a.4 |
| <i>bengryi</i> Farr, 1963, <i>Leptogaster</i> .....                                  | 35a.3 |
| <i>bicolor</i> (Macquart), 1848 ( <i>Gonypes</i> ), <i>Leptogaster</i> .....         | 35a.3 |
| <i>?breviventris</i> (Rondani), 1848 ( <i>Gonypes</i> ), <i>Systellogaster</i> ..... | 35a.6 |
| <i>calceolata</i> (Bigot), 1878 ( <i>Lasiocnemus</i> ), <i>Systellogaster</i> .....  | 35a.6 |
| <i>chrysops</i> Martin, 1957, <i>Beameromyia</i> .....                               | 35a.5 |
| <i>cingulipes</i> Walker, 1849, <i>Leptogaster</i> .....                             | 35a.3 |
| <i>clavipes</i> (Johnson), 1897 ( <i>Leptogaster</i> ), <i>Apachekolos</i> .....     | 35a.5 |
| <i>clavistyla</i> (Rondani), 1848 ( <i>Gonypes</i> ), <i>Leptogaster</i> .....       | 35a.3 |
| <i>concinata</i> Williston, 1901, <i>Leptogaster</i> .....                           | 35a.3 |
| <i>crinita</i> Martin, 1957, <i>Apachekolos</i> .....                                | 35a.5 |
| <i>crocea</i> Williston, 1901, <i>Leptogaster</i> .....                              | 35a.3 |
| <i>cubensis</i> (Bigot), 1856 ( <i>Gonypes</i> ), <i>Beameromyia</i> .....           | 35a.5 |
| <i>distincta</i> Schiner, 1867, <i>Leptogaster</i> .....                             | 35a.3 |
| <i>dorsalis</i> (Williston), 1901 ( <i>Leptogaster</i> ), <i>Beameromyia</i> .....   | 35a.5 |

35a.9

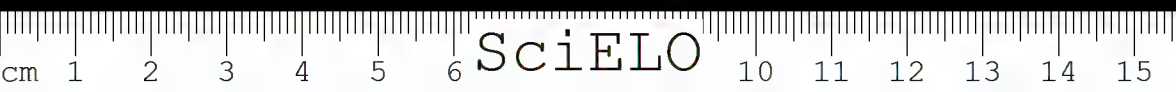
|   |       |
|---|-------|
| Eurhabdus Aldrich, 1923 .....                                       | 35a.6 |
| fascipennis (Schiner), 1867 (Euscelidia), Systellogaster .....      | 35a.6 |
| ferrugineus Walker, 1855, Leptogaster .....                         | 35a.3 |
| fervens Wiedemann, 1830, Leptogaster .....                          | 35a.3 |
| fragilis (Carrera), 1944 (Shannomyioleptus), Schildia .....         | 35a.5 |
| fuscipennis Blanchard, 1852, Leptogaster .....                      | 35a.3 |
| <i>Gonypes</i> Latreille, 1805 .....                                | 35a.2 |
| gracilis Williston, 1908, Leptopteromyia .....                      | 35a.6 |
| gracillimus (Walker), 1855 (Leptogaster), Schildia .....            | 35a.5 |
| graminicola Farr, 1963, Beameromyia .....                           | 35a.5 |
| insularia Martin, 1957, Beameromyia .....                           | 35a.5 |
| intima Williston, 1901, Leptogaster .....                           | 35a.3 |
| jamaicensis Farr, 1963, Leptogaster .....                           | 35a.3 |
| jamaicensis Farr, 1962, Schildia .....                              | 35a.5 |
| kamerlacheri Schiner, 1867, Leptogaster .....                       | 35a.3 |
| Leptogaster Meigen, 1803 .....                                      | 35a.2 |
| <i>Leptogaster</i> (Apachekolos) of Hull, 1962, misident. ....      | 35a.5 |
| <i>Leptogaster</i> (Beameromyia) of Hull, 1962, misident. ....      | 35a.4 |
| <i>Leptogaster</i> (Shannomyioleptus) of Hull, 1962, misident. .... | 35a.5 |
| Leptopteromyia Williston, 1907 .....                                | 35a.6 |
| lernerii Curran, 1953, Leptogaster .....                            | 35a.3 |
| longipes (Johnson), 1894 (Leptogaster), Apachekolos .....           | 35a.5 |
| macropygialis (Williston), 1901 (Leptogaster), Psilonyx .....       | 35a.4 |
| magnicauda (Curran), 1934 (Leptogaster), Psilonyx .....             | 35a.4 |
| martini Farr, 1963, Leptogaster .....                               | 35a.3 |
| micropygialis Williston, 1901, Leptogaster .....                    | 35a.3 |
| microthorax Aldrich, 1923, Schildia .....                           | 35a.5 |
| multicincta Walker, 1851, Leptogaster .....                         | 35a.3 |
| niger Wiedemann, 1828, Leptogaster .....                            | 35a.3 |
| nigra Williston, 1891, Leptogaster, lapsus .....                    | 35a.3 |
| nigrescens Blanchard, 1852, Leptogaster .....                       | 35a.3 |
| nubeculosa Bigot, 1878, Leptogaster .....                           | 35a.3 |
| obscuripes Loew, 1862, Leptogaster .....                            | 35a.3 |
| pictipes (Loew), 1862 (Leptogaster), Beameromyia .....              | 35a.5 |
| <i>pictipes</i> Loew of Johnson, 1949, Beameromyia, misident. ....  | 35a.5 |
| Psilonyx Aldrich, 1923 .....  | 35a.4 |
| pubescens Curran, 1934, Leptogaster .....                           | 35a.3 |
| punicea Martin, 1957, Beameromyia .....                             | 35a.5 |



|   |       |
|---|-------|
| <i>ramoni</i> Jaennicke, 1867, Leptogaster .....                        | 35a.3 |
| <i>roederi</i> Williston, 1896, Leptogaster .....                       | 35a.4 |
| <i>rubida</i> Wiedemann, 1821, Leptogaster .....                        | 35a.4 |
| <i>rubida</i> Wiedemann of Williston, 1901, Leptogaster, misident. .... | 35a.4 |
| <i>Schildia</i> Aldrich, 1923 .....                                     | 35a.5 |
| <i>Shannomyioleptus</i> Carrera, 1944 .....                             | 35a.5 |
| sp., Farr, 1963, Eurhabdus .....  | 35a.6 |
| sp., Martin, 1965, <i>Schildia</i> .....                                | 35a.5 |
| <i>spinitarsis</i> Bromley, 1951, Leptogaster .....                     | 35a.4 |
| <i>Systellogaster</i> Hermann, 1914 .....                               | 35a.6 |
| <i>testacea</i> Loew of Williston, 1901, Leptogaster, misident. ....    | 35a.4 |
| <i>titanus</i> Carrera, 1958, Leptogaster .....                         | 35a.4 |
| <i>tornowii</i> Brèthes, 1904, Leptogaster .....                        | 35a.4 |
| <i>triangulata</i> Williston, 1901, Leptogaster .....                   | 35a.4 |
| <i>tropica</i> Curran, 1934, Leptogaster .....                          | 35a.4 |
| <i>truquii</i> Bellardi, 1861, Leptogaster .....                        | 35a.3 |
| <i>venustus</i> (Bromley), 1929 (Leptogaster), <i>Psilonyx</i> .....    | 35a.4 |
| <i>vitripennis</i> Schiner, 1867, Leptogaster .....                     | 35a.4 |
| <i>vorax</i> Curran, 1934, Leptogaster .....                            | 35a.4 |
| <i>willistoni</i> Hermann, 1924, <i>Leptopteromyia</i> .....            | 35a.6 |
| <i>zephyreus</i> Aldrich, 1923, <i>Eurhabdus</i> .....                  | 35a.6 |







SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

36

## FAMILY NEMESTRINIDAE

NELSON PAPAVERO

*Departamento de Zoologia, Secretaria da Agricultura  
São Paulo, Brasil*

These flies are endoparasites of grasshoppers and scarabaeid beetles. The biology of these interesting Diptera has been studied by several authors, both in the Holarctic and Neotropical regions (Brauer, 1883, 1884; Bruch, 1917; Crouzel & Salavin, 1943; Dietz, 1953; Handlirsch, 1883; Léonide, 1962a, 1962b, 1963, 1964a, 1964b; Prescott, 1960, 1961; Riley, 1883; Spencer, 1931, 1932, 1945, 1958; Stuardo Ortiz, 1935a; York & Prescott, 1952). The works of Mackerras, 1925 (distribution, anatomy, etc.) and Hennig, 1952 (larval and pupal characters, systematics, distribution, biological notes), should also be consulted. Species of this family occur mostly at the southern end of South America (Chile and Argentina).

I want to express my sincere gratitude to Dr. J. H. Guimarães for revising the manuscript, comparing it with the files of the U.S. National Museum, and to Dr. Willis W. Wirth for his kind permission to use those files.

## Subfamily HIRMONEURINAE

## Genus HIRMONEURA Meigen

HIRMONEURA Meigen, 1820:132. Type-species, *obscura* Wiedemann (mon.).

*Hermoneura*, emend.

*Hirmonevra*, error.

*Hyrnoneura*, emend.

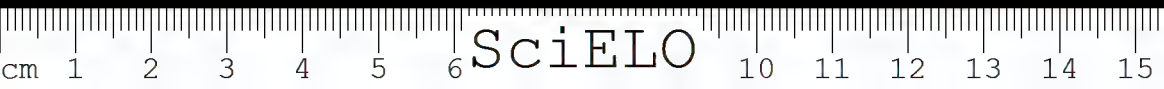
Refs. — Bequaert, 1932:14 (key to subgenera); Stuardo Ortiz, 1932 (synopsis of Chilean spp.).

## Subgenus HIRMONEURA Meigen

EXOTICA Wiedemann, 1824:20. Type-locality: Uruguay, Montevideo. Distr.

— Brazil (Rio Grande do Sul), Uruguay, Argentina. Refs. — Be-

Published under the auspices of the "Fundação de Amparo à Pesquisa do Estado de São Paulo".



quaert, 1934:175 (description of ♂); Bruch, 1917 (biol.); Stuardo Ortiz, 1943 (biology, puparium).

#### Subgenus NEOHIRMONEURA Bequaert

*Hirmoneura*, subg. NEOHIRMONEURA Bequaert, 1920:306. Type-species, *flavipes* Williston (orig. des.).

Ref. — Bequaert, 1920 (key to spp.).

BRADLEYI Bequaert, 1920:301, unnumbered text-fig. (whole insect). Type-locality: U.S.A., Texas, Comal Co., Anhalt. Distr. — U.S.A. (Texas).  
ssp. NOVILEONIS Bequaert, 1950:8. Type-locality: México, Nuevo León, Monterrey.

PSILOTES Osten Sacken, 1886:74. Type-locality: "Mexico". Distr. — México, Guatemala.

#### Subgenus HIRMONEURILLA Bequaert

*Hirmoneura*, subg. HIRMONEURILLA Bequaert, 1932:15. Type-species, *Hermoneura punctipennis* Philippi (orig. des.).

ECUADORENSIS Bequaert, 1932:16. Type-locality: Ecuador, "Cordilleras". Distr. — Ecuador.

PUNCTIPENNIS (Philippi), 1865:660 (*Hermoneura*). Type-locality: Chile, Santiago and Colchagua. Distr. — Chile. Ref. — Stuardo Ortiz, 1932:75, pl. 4, fig. 4 (whole insect), pl. 5, fig. 3 (wing).

var. ?*luctuosa* Philippi, 1865:661 (*Hermoneura*). Type-locality: Chile, near Santiago. Ref. — Stuardo Ortiz, 1932:76, pl. 3, fig. 1 (whole insect).

*luctuos* Hunter, 1901:150 (error).

#### Subgenus HIRMONEUOPSIS Bequaert

*Hirmoneura*, subg. HIRMONEUOPSIS Bequaert, 1932:15. Type-species, *brevirostrata* Bigot (orig. des.).

BREVIROSTRATA (Bigot), 1857:280, pl. 6, figs. 1, 1a, 1b (whole insect, head, antenna) (*Hirmoneura*). Type-locality: "Chile". Distr. — Chile. Ref. — Stuardo Ortiz, 1932: 68, pl. 3, fig. 3 (whole insect).

*bigoti* Schiner, 1808:108 (unjustified change of name for *brevirostrata* Bigot).

*brevirostris* Hunter, 1901:150 (error).

ORELLANAE Stuardo Ortiz, 1936:170, pl. 16, fig. 4 (whole insect). Type-locality: Chile, Coquimbo, Cuncumén. Distr. — Chile.

SILVAE Stuardo Ortiz, 1936:171, pl. 16, fig. 3 (whole insect). Type-locality: Chile, Ñuble, Termas de Chillán, Gruta de los Pangues, 1700 m. Distr. — Chile.

STROBELII (Rondani) 1868:11, pl. 4, fig. 11 (antenna) (*Hirmoneura*). Type-locality: Argentina, Santa Fe and Córdoba, Rio Cuarto, Rosário. Distr. — Chile, Argentina. Refs. — Lichtwardt, 1910:600; Stuardo Ortiz, 1932:79, pl. 3 fig. 4 (whole insect).

*simplex* Bigot, 1881:20. Type-locality: "Chile".

# Subgenus AUSTROHIRMONEURA Bequaert

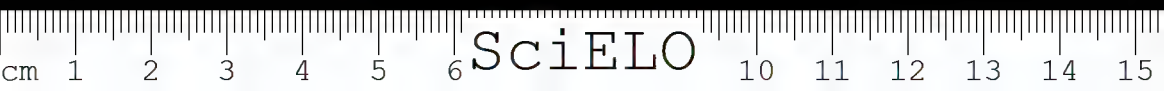
- Hirmoneura*, subg. AUSTROHIRMONEURA Bequaert, 1932:15. Type-species, *Hermoneura bellula* Philippi (orig. des.).
- ARTICULATA (Philippi), 1865:660 (*Hermoneura*). Type-locality: Chile, Colchagua. Distr. — Chile, Argentina. Refs. — Stuardo Ortiz, 1932:71, pl. 3, fig. 4 (whole insect), 1935a:197 (biol.), 1936:174, fig. 15 (puparium).
- cinerea* Philippi, 1865:660 (*Hermoneura*). Type-locality: Chile, Colchagua and Santiago, Illapel.
- clinerea* Hunter, 1901:150 (error).
- BELLULA (Philippi), 1865:662 (*Hermoneura*). Type-locality: Chile, Santiago, Illapel. Distr. — Chile. Ref. — Stuardo Ortiz, 1932:77, pl. 4, fig. 3 (whole insect), pl. 5, fig. 5 (wing).
- MACULIPENNIS Macquart, 1849:99, pl. 9, fig. 10 (wing). Type-locality: "Chile". Distr. — Chile, Paraguay. Ref. — Stuardo Ortiz, 1932:64, pl. 4, fig. 2 (whole insect), pl. 5, fig. 4 (wing).
- fusca* Rondani, 1863:51. Type-locality: "Chile".
- modesta* Philippi, 1865:662 (*Hermoneura*). Type-locality: Chile, Santiago, "radicem Andium".
- RUIZI Stuardo Ortiz, 1936:172, pl. 16, fig. 2 (whole insect). Type-locality: Chile, Talca, Las Mercedes. Distr. — Chile.

# Subgenus HYRMOPHILAEBA Rondani

- HYRMOPHILAEBA Rondani, 1863:51 (1864:51) (as genus). Type-species, *Hirmoneura brevirostris* Macquart (orig. des.).
- Hirmophloeoba*, error.
- Hymrophloeoba*, error.
- ANDICOLA Lichtwardt, 1925:393, fig. 1 (wing). Type-locality: Argentina, Salta, 2500 m. Distr. — Argentina.
- ANTHRACOIDES (Philippi), 1865:663 (*Hermoneura*). Type-locality: Chile, Santiago, "Andibus humilioribus". Distr. — Chile. Ref. — Lichtwardt, 1910:599.
- albistria* Schiner, 1868:109. Type-locality: "Chile".
- BREVIROSTRIS Macquart, 1846:101, pl. 20, fig. 1 (whole insect). Type-locality: Mexico, Mérida de Yucatán. Distr. — Mexico, Guatemala. Ref. — Bequaert, 1930:295.
- LURIDA (Rondani), 1868:33, pl. 4, fig. 10 (antenna) (*Hymroneura*). Type-locality: Argentina, Mendoza, San Carlos. Distr. — Chile, Argentina. Ref. — Stuardo Ortiz, 1936:176 (biol.).
- TEXANA Cockerell, 1908:253. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas, Arizona), Mexico, Panama.

# Unplaced species of *Hirmoneura*

- basalis* Lichtwardt, 1910:595, fig. 3 (wing). Type-locality: "Ecuador" (error; not Neotropical; see Lichtwardt, 1925:392).





Subfamily NEMESTRININAE

Genus TRICHOPHTHALMA Westwood

TRICHOPHTHALMA Westwood, 1835:448. Type-species, *bivittata* Westwood (Lichtwardt, 1910:601).

Refs. — Edwards, 1930:191 (key to Chilean spp.); Stuardo Ortiz, 1935b (synopsis of Chilean spp.).

Subgenus TRICHOPHTHALMA Westwood

AMOENA Bigot, 1881:20 (originally incorrectly spelled "*amaena*"). Type-locality: "Chile". Distr. — Chile, Argentina.

*niveicineta* Lichtwardt, 1910:610 (*Eurygastromyia*). Type-locality: Argentina, Chubut, Valle del Lago Blanco.

MORENI Stuardo Ortiz, 1939:81. Type-locality: "Patagonia". Distr. — Patagonia.

NIVEIBARBIS (Bigot), 1857:382 (*Hirmonevra*). Type-locality: "Chile". Distr. — Chile. Ref. — Stuardo Ortiz, 1935: pl. 7, fig. 2 (whole insect).

Subgenus EURYGASTROMYIA Lichtwardt

EURYGASTROMYIA Lichtwardt, 1910:601 (as genus). Type-species, *Trichophthalma philippii* Rondani (Bequaert, 1932:29).

ANDINA (Philippi), 1865:659 (*Hermoneura*). Type-locality: Chile, Nuble, near Termas de Chillán. Distr. — Chile.

BARBAROSSA (Bigot), 1857:281 (*Hirmonevra*). Type-locality: "Chile". Distr. — Brazil (Rio Grande do Sul), Chile. Refs. — Roeder, 1882:511; Stuardo Ortiz, 1935: pl. 7, fig. 1 (whole insect); Lichtwardt, 1910:596.

*zonalis* Rondani, 1863:52. Type-locality: "Chile".

*nemestrinoides* Jaennicke, 1867:335, pl. 43, fig. 6 (whole insect) (*Hirmoneura*). Type-locality: "Chile".

*vicarians* Schiner, 1868:111. Type-locality: "Chile".

*vicarius* Hunter, 1901:150 (error).

COMMUTATA (Philippi), 1865:658 (*Hermoneura*). Type-locality: Chile, Valdivia. Distr. — Chile.

*chilensis* Macquart of Blanchard, in Gay, 1852:383, pl. 3, fig. 11 (whole insect, natural size), 11b (mouthparts), 11c (antenna).

EXIMIA (Philippi), 1865:656 (*Hermoneura*). Type-locality: Chile, Valdivia, L. Ranco. Distr. — Chile. Ref. — Stuardo Ortiz, 1935: pl. 7, fig. 3 (whole insect).

GLAUCIVENTRIS Edwards, 1930:183, fig. 11 (whole insect, antenna). Type-locality: Chile, Llanquihue, Casa Pangué. Distr. — Chile.

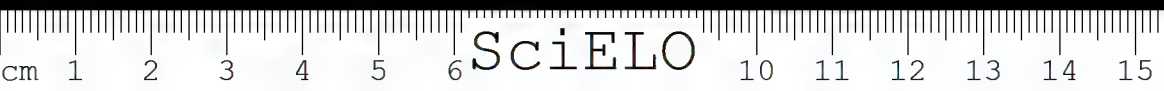
HERBSTI Lichtwardt, 1910:605. Type-locality: Chile, Concepción, and Termas de Tolhuaca. Distr. — Chile.

JAFFUELI Stuardo Ortiz, 1936:172, pl. 16, fig. 1 (whole insect). Type-locality: Chile, Nuble, Termas de Chillán. Distr. — Chile, Argentina.

- LANDBECKI (Philippi), 1865:658 (*Hermoneura*). Type-locality: Chile, Colchagua, near Clico. Distr. — Chile. Ref. — Stuardo Ortiz, 1935: pl. 7, fig. 4 (whole insect).  
*speciosa* Pirion, 1930:171 (*nomen nudum*).
- MURINA Lichtwardt, 1910:607. Type-locality: Argentina, Chubut, Valle del Lago Blanco. Distr. — Chile, Argentina.
- NUBIPENNIS (Rondani), 1863:52 (*Hirmoneura*). Type-locality: "Chile". Distr. — Chile.  
*picta* Philippi, 1865:657 (*Hermoneura*). Type-locality: Chile, Valdivia.
- PHILIPPI (Rondani), 1863:53 (*Hirmoneura*). Type-locality: "Chile". Distr. — Chile, Argentina. Ref. — Stuardo Ortiz, 1935: pl. 7, fig. 5 (whole insect).  
*balteata* Philippi, 1865:656, pl. 25, figs. 23, 23a (whole insect, antenna) (*Hermoneura*). Type-locality: Chile, Valdivia.  
*baltea* Hunter, 1901:150 (error).
- PICTIPENNIS (Philippi), 1865:657 (*Hermoneura*). Type-locality: Chile, Valdivia. Distr. — Chile.
- PORTERI Stuardo Ortiz, 1934:245, fig. 55 (wing, antenna, palpus). Type-locality: Chile, Santiago, Peñalolén, Casa de Piedra, 1600 m. Distr. — Chile.
- SCALARIS Bigot, 1881:19. Type-locality "Chile". Distr. — Chile.
- SEXMACULATA Edwards, 1930:184. Type-locality: Chile, Llanquihue, Casa Pangué. Distr. — Chile.
- SUBAURATA Westwood, 1835:448. Type-locality: Chile, Valparaíso. Distr. — Chile.  
*chilensis* Macquart, 1840:19, pl. 2, fig. 8 (head, lateral view) (*Hirmoneura*). Type-locality: "Chile".  
*flaviventris* Blanchard, in Gay, 1852:384, pl. 3, figs. 12, 12a (whole insect) (*Hirmoneura*). Type-locality: Chile, Coquimbo.  
*?bombyliiformis* Schiner, 1868:111. Type-locality: "Chile".
- URSULA (Philippi), 1865:659 (*Hermoneura*). Type-locality: Chile, Valdivia. Distr. — Chile.

#### Genus NEORHYNCHOCEPHALUS Lichtwardt

- NEORHYNCHOCEPHALUS Lichtwardt, 1910:512. Type-species, *Rhynchocephalus volaticus* Williston (Bequaert, 1930:287).
- Rhynchocephalus*, subg. *Nemestrinopsis* Cockerell, 1910:285. Type-species, *volaticus* Williston (orig. des.).  
 Ref. — Bequaert, 1934 (key to spp.).
- MENDOZANUS (Lichtwardt), 1910:594 (*Rhynchocephalus*). Type-locality: Argentina, Mendoza. Distr. — Chile, Argentina.
- MEXICANUS Bequaert, 1934:171, figs. 1A-D (wing, vertex, head, antenna). Type-locality: Mexico, Mexico City. Distr. — Mexico.
- SULPHUREUS (Wiedemann), 1830:631 (*Nemestrina*). Type-locality: Brazil, Minas Gerais. Distr. — Brazil, Paraguay, Argentina, Uruguay.  
 Ref. — Lichtwardt, 1910:594.



- SACKENII (Williston), 1880:243, unnumbered text-fig. (wing) (*Rhynchocephalus*). Type-locality: U.S.A., Washington, Olympia. Distr. — U.S.A. (Washington to Iowa, south to California and Georgia, also Michigan), Mexico. Refs. — Dietz, 1953:38; Prescott, 1961:557; Spencer, 1931, 1932.
- VITRIPENNIS (Wiedemann), 1830:631 (*Nemestrina*). Type-locality: "Brazil". Distr. — Brazil, Uruguay, Argentina. Ref. — Lichtwardt, 1910:954.
- VOLATICUS (Williston), 1883:71, fig. 4 (wings) (*Rhynchocephalus*). Type-locality: U.S.A., Florida. Distr. — U.S.A. (Arizona to Missouri and Florida), Mexico, Central America.

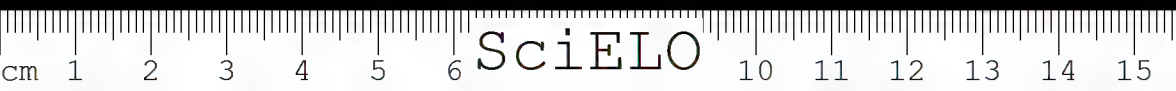
### Subfamily TRICHOPSIDEINAE

#### Genus ATRIADOPS Wandolleck

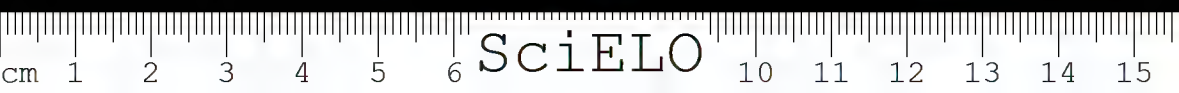
- Colax* Wiedemann, 1824:18 (preocc. Hübner, 1816). Type-species, *macula* Wiedemann (mon.).
- ATRIADOPS Wandolleck, 1897:245 (nom. nov. for *Colax* Wiedemann). Type-species, *Colax macula* Wiedemann (aut.).
- MACULA (Wiedemann), 1824:18, fig. 8 (whole insect, head, wing) (*Colax*). Type-locality: "Brazil". Distr. — Brazil. Refs. — Lopes, 1936:883, pl. 1, figs. 1-5, pl. 2, figs. 1-4 (♂ and ♀ genitalia, mouthparts, wings); Bequaert, 1937:205.

#### LITERATURE CITED

- BEQUAERT, J.  
 1920. A new nemestrinid fly from Central Texas. *Jour. N.Y. ent. Soc.* (1919) 27:301-307, 1 fig.  
 1930. Notes on American Nemestrinidae. *Psyche* 37:286-297.  
 1932. The Nemestrinidae (Diptera) in the V. v. Röder collection. *Zool. Anz.* 100(1-2):13-33.  
 1934. Notes on American Nemestrinidae, second paper. *Jour. N. Y. ent. Soc.* 24:163-184.  
 1937. *Colax macula* Wiedemann rediscovered in Brazil (Diptera, Nemestrinidae). *Konowia* 16(3-4):205-208.  
 1950. New records of North American Nemestrinidae; with descriptions of a new *Hirmoneura* from Mexico (Diptera). *Bull. Brooklyn ent. Soc.* 45:8-9.
- BIGOT, J. M. F.  
 1857. Diptères nouveaux provenant du Chili. *Ann. Soc. ent. France* (3) 5:277-308, pls. 6-7.  
 1881. Diptères nouveaux ou peu connus. 16e. Partie. XXIII. Tribus Nemestrinidorum. *Ann. Soc. ent. France* (6) 1:13-21.
- PLANCHARD, E.  
 1852. Diptera, in C. Gay: *Historia fisica y politica de Chile, Zoologia* 7:471 pp., Paris.
- BRAUER, F.  
 1883. Ergänzende Bemerkungen zu A. Handlirsch's Mittheilungen über *Hirmoneura obscura* Mg. *Wien. ent. Zeit.* 2:25-26.



1884. Zwei Parasiten des *Rhizotrogus solstitialis* aus der Ordnung der Dipteren. *Sitz. k. Akad. Wiss. Wien* 88:865-875.
- BRUCH, C.  
1917. Observaciones sobre *Hirmoneura exotica*. *Physis* 3:427-430.
- COCKERELL, T. D. A.  
1908. The dipterous family Nemestrinidae. *Trans. Amer. ent. Soc.* 34:247-253, 1 pl.  
1910. Fossil insects and a crustacean from Florissant, Colorado. *Bull. Amer. Mus. Nat. Hist.* 28:275-288, 4 figs.
- CROUZEL, I. S. DE & R. G. SALAVIN  
1943. Contribución al estudio de los *Neorhynchocephalus* argentinos (Diptera: Nemestrinidae). *An. Soc. Cient. Argent.* 136:145-177, 4 pls.
- CURRAN, C. H.  
1931. The Nearctic species of the nemestrinid genus *Rhynchocephalus* Fischer (Diptera). *Canad. Ent.* 63:68-72.
- DIETZ, D. A.  
1953. Field notes on *Neorhynchocephalus sackeni* (Williston) in Missouri. *Bull. Brooklyn ent. Soc.* 48:38-39.
- EDWARDS, F. W.  
1930. Bombyliidae, Nemestrinidae and Cyrtidae, in *Diptera of Patagonia and South Chile* 5(2):162-197, pls. 4-5.
- HANDLIRSCH, A.  
1883. Die Metamorphose und Lebensweise von *Hermoneura obscura* Meigen. *Wien. ent. Zeit.* 1:11-15.
- HENNIG, W.  
1952. *Die Larvenformen der Dipteren* 3:628 pp., 21 pls., 338 figs. Berlin.
- HUNTER, W. D.  
1901. A Catalogue of the Diptera of South America. Part II. *Trans. Amer. Ent. Soc.* 27:121-155.
- JAENNICKE, F.  
1867. Neue exotische Dipteren. *Abhandl. Senckenb. naturf. Ges.* 6:311-408, pls. 43-44.
- LÉONIDE, J. C.  
1962a. Sur la présence de *Symmictus costatus* Loew (Diptera Nemestrinidae) et de larves de némestrinidés parasites du criquet marocain (*Dociostaurus maroccanus* Thunb.) dans la plaine de Crau. *Bull. Soc. ent. France* 67:104-108.  
1962b. Formation du pore respiratoire et de la partie proximale du tube respiratoire et de la larve de *Symmictus costatus* Loew (Diptera Nemestrinidae) selon les diverses régions du corps de l'hôte. *Bull. Soc. Zool. France* 87(5-6):550-558.  
1963. Complément à l'étude de la biologie larvaire de *Symmictus costatus* Loew (Diptera Nemestrinidae) parasite d'acridiens, et





- considérations générales sur la biologie des Némestrinidés. *Entomophaga* 8(1):7-33.
- 1964a. Contribution à l'étude de la biologie du *Symmictus costatus* Loew, Diptère, Némestrinidé, acridophage. IV. La ponte et l'infestation de l'hôte. *Bull. Soc. zool. France* 89(2-3):135-142, 7 figs.
- 1964b. Contribution à l'étude biologique du *Neorhynchocephalus taucheri* (Fisch.) (Diptera Némestrinidae) et commentaires sur la biologie imaginale des némestrinidés. *Bull. Soc. zool. France* 89(2-3):210-218, figs. 1-3.
- LICHTWARDT, B.
1910. Beitrag zur Kenntnis der Némestriniden (Dipt.). V. Über amerikanische Arten. *Deutsche ent. Zeit.* 1910:589-611, 5 figs.
1925. Ueber Némestriniden (Dipt.). *Ent. Mitt.* 14(5-6):392-394, 2 figs.
- LOPES, H. S.
1936. Sobre *Atriadops macula* Wiedemann (Diptera: Némestrinidae). *Mem. Inst. Oswaldo Cruz* 31(4):883-887, 2 pls.
- MACQUART, J.
1840. *Diptères exotiques nouveaux ou peu connus* 2(1):135 pp., 21 pls. Paris.
1846. *Idem, Supplément* 1:238 pp., 20 pls. Paris.
1850. *Idem, Supplément* 4:161 pp., Paris.
- MEIGEN, J. W.
1820. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten* 2:x+365 pp., pls. 12-21. Aachen.
- OSTEN SACKEN, C. R.
1886. Diptera, pp. 1-24, 25-48, 49-72, 73-104, 105-123, pls. 1-2, in *Biologia Centrali-Americana, Zoology, Insecta-Diptera* 1:378 pp., 6 pls. London.
- PHILIPPI, R. A.
1865. Aufzählung der chilenischen Dipteren. *Verh. k. k. zool-bot. Ges. Wien* 65:595-782, pls. 23-29.
- PIRION, P. A.
1930. Excursión a la Cordillera de Tinguiricara. *Rev. Chil. Hist. Nat.* 34:170-180.
- PRESCOTT, H. W.
1960. Suppression of grasshoppers by nemestrinid parasites (Diptera). *Ann. ent. Soc. Amer.* 53:513-521.
1961. Respiratory pore construction in the host by the nemestrinid parasite *Neorhynchocephalus sackenii* (Diptera) with notes on respiratory tube characters. *Ann. ent. Soc. Amer.* 54:557-566.
- RILEY, C. V.
1883. Larvae stages and habits of the bee fly, *Hirmoneura*. *Science* 1:332-334.
- ROEDER, V. V.
1882. Zur Synonymie einiger chilenischen Dipteren. *Stettin. ent. Zeit.* 43:510-511.



RONDANI, C.

1863. *Diptera exotica revisa et annotata*, 99 pp., 1 pl. Modena. (Also published under the title "Dipterorum species et genera aliqua exotica" in *Arch. per l'Anat. e Fis. Modena* (1863) 3(1):1-99, pl. 5, 1864).

1868. *Diptera aliqua in America Meridionali lecta a Prof. P. Strobel annis 1866-67 distincta et annotata, novis aliquibus descriptis*. *Ann. Soc. Natur. in Modena* 3:24-40, 1 pl.

SCHINER, J. R.

1868. *Diptera, in Reise der österreichischen Fregatte Novara um die Erde, Zool. Theil, Diptera*: 388 pp., 4 pls. Wien.

SPENCER, G. J.

1931. The oviposition habits of *Rhynchocephalus sakeni* Will. (Diptera: Nemestrinidae). *Proc. ent. Soc. British Columbia* 28:21-24.

1932. Further notes on *Rhynchocephalus sakeni* Will. (Diptera: Nemestrinidae). *Proc. ent. Soc. British Columbia* 29:25-27.

1945. Notes on the tanglewing flies of British Columbia (Diptera: Nemestrinidae). *Proc. ent. Soc. British Columbia* 42:18.

1958. On the Nemestrinidae of the British Columbia dry range lands. *Proc. 10th Intern. Congr. Entom. (Montréal, 1956)* 4:503-509.

STUARDO ORTIZ, C.

1932. Sinopsis de los nemestrínidos chilenos del genero *Hirnoneura* Meigen (Diptera). *Rev. Chil. Hist. Nat.* 36:61-81, pls. 3-5.

1935a. Algunas observaciones sobre las costumbres y metamorfosis de *Hirnoneura articulata* Ph. *Rev. Chil. Hist. Nat.* 38:197-202, figs.

1935b. Sinopsis de los nemestrínidos chilenos del género *Trichophthalma* Westwood (Diptera). *Rev. Chil. Hist. Nat.* 38:214-248, fig. 5, pl. 7.

1936. Nemestrínidos nuevos chilenos y anotaciones sobre dos especies conocidas. *Rev. Chil. Hist. Nat.* 40:169-178, fig. 14, pl. 16.

1939. Algunas anotaciones sobre los "Nemestrinidae" (Diptera) de la Republica Argentina. *Physis* 17:77-94.

1943. Contribucion al conocimiento de la biologia de *Hirnoneura exotica* Wied. (Nemestrinidae, Diptera). *Rev. Soc. ent. Argentina* 11:385-392, pl. 16.

WANDOLLECK, B.

1897. Monographie der Dipteren-Gattung *Colax* Wiedem. und *Trichopsidea* Westw. *Entomol. Nachrichten* 16:241-252, 8 figs.

WESTWOOD, J. O.

1835. *Insectorum novorum exoticorum (ex ordine dipterorum) descriptiones*. London & Edinburgh *Philos. Mag. & Jour. Sci.* (3) 6:280-281, 447-449.

WIEDEMANN, C. R. W.

1824. *Munus rectoris in Academia Christiana Albertina aditurus, Analecta entomologica ex museo regio Havniensi maxime congesta*, 60 pp., 1 pl. Kiliae.

1830. *Aussereuropäische zweiflügelige Insekten* 2:xxxii + 684 pp., 7 pls. Hamm.

WILLISTON, S. W.

1880. Some interesting new Diptera. *Trans. Conn. Acad. Arts. & Sci.* 4:243-246, 1 fig.

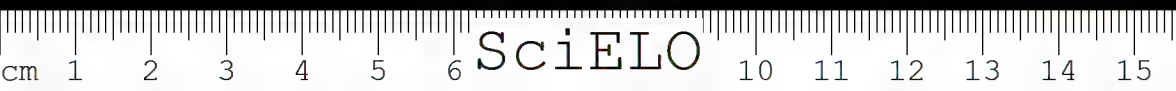
1883. The North American species of Nemestrinidae. *Canad. Ent.* 15:69-72, 1 fig.

YORK, G. T. & H. W. PRESCOTT

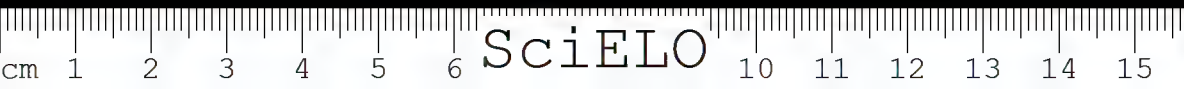
1952. Nemestrinid parasites of grasshoppers. *Jour. Econ. Ent.* 45:5-10.

## INDEX

|   |      |
|---|------|
| <i>albistria</i> Schiner, 1868, <i>Hirmoneura</i> .....                                 | 36.3 |
| <i>amaena</i> , emend. ....   | 36.4 |
| <i>amoena</i> Bigot, 1881, <i>Trichophthalma</i> .....                                  | 36.4 |
| <i>andicola</i> Lichtwardt, 1925, <i>Hirmoneura</i> .....                               | 36.3 |
| <i>andina</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....       | 36.4 |
| <i>anthracoides</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Hirmoneura</i> .....     | 36.3 |
| <i>articulata</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Hirmoneura</i> .....       | 36.3 |
| <i>Atriadops</i> Wandolleck, 1897 .....   | 36.6 |
| <i>Austrohirmoneura</i> Bequaert, 1932 .....  | 36.3 |
| <i>baltea</i> Hunter, 1901, error .....   | 36.5 |
| <i>balteata</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....     | 36.5 |
| <i>barbarossa</i> (Bigot), 1857 ( <i>Hirmoneura</i> ), <i>Trichophthalma</i> .....      | 36.4 |
| <i>basalis</i> Lichtwardt, 1910, <i>Hirmoneura</i> .....                                | 36.3 |
| <i>bellula</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Hirmoneura</i> .....          | 36.3 |
| <i>bigoti</i> Schiner, 1868, <i>Hirmoneura</i> .....                                    | 36.2 |
| <i>bombyliiformis</i> Schiner, 1868, <i>Trichophthalma</i> .....                        | 36.5 |
| <i>bradleyi</i> Bequaert, 1920, <i>Hirmoneura</i> .....                                 | 36.2 |
| <i>brevirostrata</i> (Bigot), 1857 ( <i>Hirmoneura</i> ), <i>Hirmoneura</i> .....       | 36.2 |
| <i>brevirostris</i> Hunter, 1901, error .....   | 36.2 |
| <i>brevirostris</i> Macquart, 1846, <i>Hirmoneura</i> .....                             | 36.3 |
| <i>chilensis</i> (Macquart), 1840 ( <i>Hirmoneura</i> ), <i>Trichophthalma</i> .....    | 36.5 |
| <i>chilensis</i> Macquart, of Blanchard, 1852, <i>Trichophthalma</i> .....              | 36.4 |
| <i>cinerea</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Hirmoneura</i> .....          | 36.3 |
| <i>clinerea</i> Hunter, 1901, error .....   | 36.3 |
| <i>Colax</i> Wiedemann, 1824 .....  | 36.6 |
| <i>commutata</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....    | 36.4 |
| <i>ecuadorensis</i> Bequaert, 1932, <i>Hirmoneura</i> .....                             | 36.2 |
| <i>Eurygastromyia</i> Lichtwardt, 1910 .....  | 36.4 |
| <i>eximia</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....       | 36.4 |
| <i>exotica</i> Wiedemann, 1824, <i>Hirmoneura</i> .....                                 | 36.1 |
| <i>flaviventris</i> (Blanchard), 1852 ( <i>Hirmoneura</i> ), <i>Trichophthalma</i> .... | 36.5 |
| <i>fusca</i> Rondani, 1863, <i>Hirmoneura</i> .....                                     | 36.3 |
| <i>glauciventris</i> Edwards, 1930, <i>Trichophthalma</i> .....                         | 36.4 |
| <i>herbsti</i> Lichtwardt, 1910, <i>Trichophthalma</i> .....                            | 36.4 |
| <i>Hermoneura</i> , emend. ....   | 36.1 |

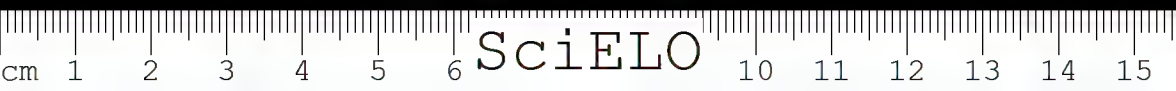


|   |      |
|---|------|
| <i>Hirmoneura</i> Meigen, 1820 .....  | 36.1 |
| <i>Hirmoneurilla</i> Bequaert, 1932 .....   | 36.2 |
| <i>Hirmoneurilla</i> Bequaert, 1932 .....   | 36.2 |
| <i>Hirmoneurinae</i> .....  | 36.1 |
| <i>Hirmoneuropsis</i> Bequaert, 1932 .....  | 36.2 |
| <i>Hirmonevra</i> , error .....   | 36.1 |
| <i>Hirmophloeoba</i> , error .....  | 36.3 |
| <i>Hymoneura</i> , emend. ....  | 36.1 |
| <i>Hymophlaeba</i> Rondani, 1863 .....  | 36.3 |
| <i>Hymophloeoba</i> , error .....   | 36.3 |
| <i>jaffueli</i> Stuardo Ortiz, 1936, <i>Trichophthalma</i> .....                                  | 36.4 |
| <i>landbecki</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....              | 36.5 |
| <i>luctuos</i> Hunter, 1901, error .....  | 36.2 |
| <i>luctuosa</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Hirmoneura</i> .....                   | 36.2 |
| <i>lurida</i> (Rondani), 1863 ( <i>Hymoneura</i> ), <i>Hirmoneura</i> .....                       | 36.3 |
| <i>macula</i> (Wiedemann), 1824 ( <i>Colax</i> ), <i>Atriadops</i> .....                          | 36.6 |
| <i>maculipennis</i> Macquart, 1849, <i>Hirmoneura</i> .....                                       | 36.3 |
| <i>mendozaanus</i> (Lichtwardt), 1910 ( <i>Rhynchocephalus</i> ), <i>Neorhynchocephalus</i> ..... | 36.5 |
| <i>mexicanus</i> Bequaert, 1934, <i>Neorhynchocephalus</i> .....                                  | 36.5 |
| <i>modesta</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Hirmoneura</i> .....                    | 36.3 |
| <i>morenii</i> Stuardo Ortiz, 1939, <i>Trichophthalma</i> .....                                   | 36.4 |
| <i>murina</i> Lichtwardt, 1910, <i>Trichophthalma</i> .....                                       | 36.5 |
| <i>Nemestrininae</i> .....  | 36.4 |
| <i>nemestrinoides</i> (Jaenicke), 1867 ( <i>Hirmoneura</i> ), <i>Trichophthalma</i> ..            | 36.4 |
| <i>Nemestrinopsis</i> Cockerell, 1910 .....   | 36.5 |
| <i>Neohirmoneura</i> Bequaert, 1920 .....   | 36.2 |
| <i>Neorhynchocephalus</i> Lichtwardt, 1910 .....  | 36.5 |
| <i>niveibarbis</i> (Bigot), 1857 ( <i>Hirmonevra</i> ), <i>Trichophthalma</i> .....               | 36.4 |
| <i>niveicincta</i> (Lichtwardt), 1910 ( <i>Eurygastromyia</i> ), <i>Trichophthalma</i> ..         | 36.4 |
| <i>novileonis</i> Bequaert, 1950, <i>Hirmoneura</i> .....   | 36.2 |
| <i>nubipennis</i> (Rondani), 1863 ( <i>Hirmoneura</i> ), <i>Trichophthalma</i> .....              | 36.5 |
| <i>orellanae</i> Stuardo Ortiz, 1936, <i>Hirmoneura</i> .....                                     | 36.2 |
| <i>philippii</i> (Rondani), 1863 ( <i>Hirmoneura</i> ), <i>Trichophthalma</i> .....               | 36.5 |
| <i>picta</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....                  | 36.5 |
| <i>pictipennis</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....            | 36.5 |
| <i>porteri</i> Stuardo Ortiz, 1934, <i>Trichophthalma</i> .....                                   | 36.5 |
| <i>psilotes</i> Osten Sacken, 1886, <i>Hirmoneura</i> .....                                       | 36.2 |
| <i>punctipennis</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Hirmoneura</i> .....               | 36.2 |
| <i>ruizi</i> Stuardo Ortiz, 1936, <i>Hirmoneura</i> .....   | 36.3 |
| <i>sackenii</i> (Williston), 1880 ( <i>Rhynchocephalus</i> ), <i>Neorhynchocephalus</i> ..        | 36.6 |
| <i>scalaris</i> Bigot, 1881, <i>Trichophthalma</i> .....  | 36.5 |
| <i>sexmaculata</i> Edwards, 1930, <i>Trichophthalma</i> .....                                     | 36.5 |
| <i>silvae</i> Stuardo Ortiz, 1936, <i>Hirmoneura</i> .....  | 36.2 |
| <i>simplex</i> Bigot, 1881, <i>Hirmoneura</i> .....   | 36.2 |





|  |      |
|--|------|
| <i>speciosa</i> Pirion, 1930, <i>Trichophthalma</i> .....                                      | 36.5 |
| <i>strobilii</i> (Rondani), 1868 ( <i>Hymoneura</i> ), <i>Hirmoneura</i> .....                 | 36.2 |
| <i>subaurata</i> Westwood, 1835, <i>Trichophthalma</i> .....                                   | 36.5 |
| <i>sulphureus</i> (Wiedemann), 1830 ( <i>Nemestrina</i> ), <i>Neorhynchocephalus</i> .....     | 36.5 |
| <i>texana</i> Cockerell, 1908, <i>Hirmoneura</i> .....   | 36.3 |
| <i>Trichophthalma</i> Westwood, 1835 .....   | 36.4 |
| <i>Trichopsideinae</i> .....   | 36.6 |
| <i>ursula</i> (Philippi), 1865 ( <i>Hermoneura</i> ), <i>Trichophthalma</i> .....              | 36.5 |
| <i>vicarians</i> Schiner, 1868, <i>Trichophthalma</i> .....                                    | 36.4 |
| <i>vicarius</i> Hunter, 1901, error .....  | 36.4 |
| <i>vitripennis</i> (Wiedemann), 1830 ( <i>Nemestrina</i> ), <i>Neorhynchocephalus</i> .....    | 36.6 |
| <i>volaticus</i> (Williston), 1883 ( <i>Rhynchocephalus</i> ), <i>Neorhynchocephalus</i> ..... | 36.6 |
| <i>zonalis</i> Rondani, 1863, <i>Trichophthalma</i> .....                                      | 36.4 |



MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(FORMERLY DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO)  
A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

38

FAMILY BOMBYLIIDAE<sup>1</sup>REGINALD H. PAINTER<sup>2</sup>, ELIZABETH M. PAINTER, AND JACK HALL<sup>3</sup>

The Bombyliidae are a large family of parasitic or predaceous flies belonging to the lower Brachycera. Other than those species reported on in *Biologia Centrali Americana*, Philippi's and Hall's works on Chilean species and a few scattered shorter papers, little is known concerning the Neotropical fauna. Most of the species are poorly described and many are unrecognizable. Many of the types have been lost or damaged.

Virtually nothing is known of the immature stages of the Neotropical species. Throughout the world the Bombyliidae are known to be parasitic upon the larvae of various Diptera, Lepidoptera, and Hymenoptera as well as on members of the Coleoptera, Orthoptera, and Neuroptera. In the Hymenoptera, both the solitary and semisocial bees and wasps are attacked. There are many species that are important predators of grasshopper egg pods.

The Bombyliidae are worldwide in distribution but are most abundant in the more arid temperate regions. Approximately 6,000 species are known, with the Palearctic and Ethiopian species more completely studied than any other.

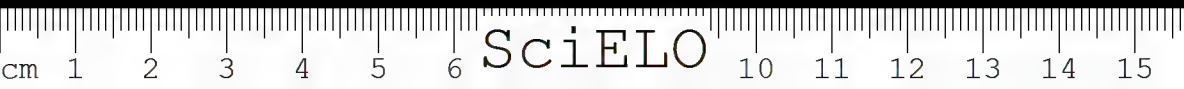
Most of the synonymies contained herein are the result of the late R. H. Painter's painstaking studies of the types located in European and United States museums.

---

<sup>1</sup>Contribution n° 1205-B, Department of Entomology, Kansas State University, Manhattan, Kansas, USA. This study was supported in part by National Science Foundation grants G10664 and G21291, and Bache Fund grants 334, 453, and 477 to the senior author.

<sup>2</sup>Late Professor of Entomology, Kansas State University.

<sup>3</sup>Senior Museum Scientist, University of California, Riverside, California.



## BOMBYLIIDAE HOMOEOPHTHALMAE

### Subfamily BOMBYLIINAE

#### Genus ACROPHTHALMYDA Bigot

*Scinax* Loew, 1855: 42 (preocc. Wagler, 1830). Type-species, *Bombylius sphenoptera* Loew (orig. des.).

ACROPHTHALMYDA Bigot, 1858: 573. Type-species, *Cyllenia elegantula* Bigot (mon.) = *sphenoptera* (Loew).

*Bombylisoma* Rondani of Rondani, 1863: 66, misident.

*Ostentator* Jaennicke, 1867: 348 (1868: 41). Type-species, *punctipennis* Jaennicke (mon.) = *sphenoptera* (Loew).

This genus is apparently endemic to Chile. Refs. — Paramonov, 1931a: 47; Hall, 1976a: 21 (key and descr.).

PAULSENI (Philippi), 1865: 651 (*Bombylius*). Type-locality: Chile, Santiago Prov. Distr. — Chile (Arauco, Malleco, Cautín, Ñuble, Concepción, Valparaíso, Valdivia, Aconcagua, Linares, Maule, Curicó, Santiago). Ref. — Hall, 1976a: 22.

SPHENOPTERA (Loew), 1855: 42 (*Scinax*). Type-locality: "Chile". Distr. — Chile (Santiago, Valparaíso, Malleco, Coquimbo). Ref. — Hall, 1976a: 24.

*elegantula* Bigot, 1857b: 294 (*Cyllenia*). Type-locality: "Chile".

*sphenoptera* Bigot, 1858: 573, misspell.

*decorata* Rondani, 1863: 68 (*Bombylisoma*). Type-locality: "Chile".

*punctipennis* Jaennicke, 1867: 349 (1868: 41), pl. 43 (= 1), fig. 10 (*Ostentator*). Type-locality: "Chile".

#### Genus BOMBYLIUS Linnaeus

BOMBYLIUS Linnaeus, 1758: 606. Type-species, *major* Linnaeus (Latreille, 1810: 443).

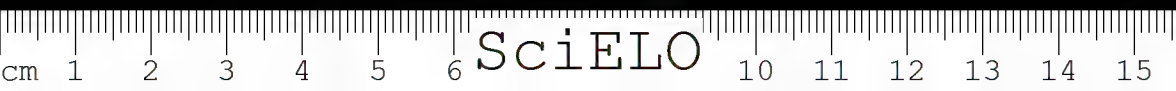
*Bombylius*, subg. SEMISTOCHUS Hall, 1976a: 27. Type-species, *ovatus* Hall (orig. des.).

*Bombylius*, subg. PARASYSTOCHUS Hall, 1976a: 27. Type-species, *flavescens* Hall (orig. des.).

Only the Chilean species have been included in subgenera; these are indicated within square brackets. The immature stages attack larvae of ground nesting solitary bees (Hull, 1973)

ABDOMINALIS Wiedemann, 1828: 346. Type-locality: Uruguay, Montevideo. Distr. — Brazil (Rio Grande do Sul), Uruguay.

*mesomelas* Wiedemann, 1830: 640. Type-locality: Brazil, Rio Grande do Sul, Caçapava do Sul. Ref. — Painter & Painter, 1974: 11.



- aurovittatus* Macquart, 1850: 423 (1850: 119). Type-locality: "South America" (in error; not Neotropical; = *B. fulvonotatus* Wiedemann, 1818). Ref. — Bowden, 1975: 312.
- CLO Williston, 1901: 285. Type-locality: Mexico, Guerrero: Acaguizotla, Hacienda de la Imagen, Tierra Colorada, and Rincón. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 6.
- DICHOPTUS Hall, 1976a: 28 [*Bombylius*]. Type-locality: Chile, Coquimbo, El Pangue. Distr. — Chile (Coquimbo, Santiago).
- FLAVESCENS Philippi, 1865: 650 [*Parasystoechus*]. Type-locality: Chile, Santiago. Distr. — Chile (Curicó, Aconcagua, Ñuble, Cautín, Malleco, Concepción, Coquimbo, Talca, Arauco, Santiago, Linares, Valparaíso). Ref. — Hall, 1976a: 29.
- FLAVIPILOSUS Cole, 1923: 308. Type-locality: Mexico, Baja California, San Francisquito Bay. Distr. — Mexico (Baja California).
- HAYWARDI Edwards, 1937: 36. Type-locality: Argentina, La Rioja, Patquia. Distr. — Argentina (La Rioja).
- HELVUS Wiedemann, 1821: 164. Type-locality: "Mexico". Distr. — Mexico. Ref. — Painter & Painter, 1962: 9.
- IO Williston, 1901: 285, pl. 5, fig. 7. Type-locality: Mexico, Guerrero: Acaguizotla and Dos Arroyos. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 10.
- LANDBECKI Philippi, 1865: 650 [*Parasystoechus*]. Type-locality: Chile, Colchagua. Distr. — Chile (Colchagua). Ref. — Hall, 1976a: 31.
- MEXICANUS Wiedemann, 1821: 166. Type-locality: U.S.A., Georgia. Distr. — U.S.A. (e. and s. states), Mexico (Sonora).
- philadelphicus* Macquart, 1840: 99 (1841: 377), pl. 6, fig. 3, pl. 7, fig. 3. Type-locality: U.S.A., Pennsylvania, Philadelphia.
- fulvibasis* Macquart, 1855: 102 (1855: 82). Type-locality: U.S.A., Maryland, Baltimore. Ref. — Painter & Painter, 1962: 8, 15.
- OCHRACEUS Bigot, 1892: 364. Type-locality: Uruguay, Montevideo. Distr. — Uruguay. Ref. — Painter & Painter, 1974: 16.
- OVATUS Hall, 1976a: 31 [*Semistoechus*]. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago).
- RAVUS Loew, 1863: 301 (Cent. 4, n° 50). Type-locality: Mexico, Tamaulipas, Matamoros. Distr. — Mexico (Tamaulipas).
- RUFONALIS Macquart, 1850: 424 (1850: 120). Type-locality: "South America".
- RUIZI Edwards, 1937: 35 [*Bombylius*]. Type-locality: Chile, Colchagua, Las Mercedes. Distr. — Chile (Colchagua, Coquimbo). Ref. — Hall, 1976a: 32.
- SENICULUS Philippi, 1865: 649 [*Parasystoechus*]. Type-locality: Chile, Santiago. Distr. — Chile (Santiago). Ref. — Hall, 1976a: 34.
- VALDIVIANUS Rondani, 1863: 68 [*Bombylius*]. Type-locality: "Chile". Distr. — Chile (Cautín, Maule, Osorno, Ñuble, Malleco, Valdivia, Magallanes, Aisén), Argentina (nw. Chubut). Ref. — Painter & Painter, 1974: 19.





*valdivianus* Philippi, 1865: 649. Type-locality: Chile, Valdivia. Ref. — Hall, 1976a: 34.

### Genus PARABOMBYLIUS Williston

PARABOMBYLIUS Williston, 1907: 1. Type-species, *Thlipsogaster ater* Coquillett (Coquillett, 1910: 583) = *coquilletti* (Williston). Ref. — Painter, 1926: 73.

ALBOPENICILLATUS (Bigot), 1892: 363 (*Bombylius*). Type-locality: "Mexico". Distr. — U.S.A. (Texas, Arkansas), Mexico (Guerrero, Puebla, Oaxaca, Veracruz, Guanajuato). Ref. — Painter & Painter, 1962: 16.

COQUILLETTI (Williston), 1901: 286 (*Bombylius*; nom. nov. for *ater* Coquillett). Type-locality: U.S.A., Louisiana. Distr. — U.S.A. (Louisiana, Texas, Kansas, Arkansas, Mississippi, Ohio), Mexico (Guerrero, Nuevo León).

*ater* Coquillett, 1894: 108 (*Thlipsogaster*; preocc. Scopoli, 1763). Type-locality: U.S.A., Louisiana.

DOLOROSUS (Williston), 1901: 286, pl. 5, fig. 8 (*Bombylius*). Type-locality: Mexico, Guerrero: Dos Arroyos, Venta de Zopilote and Tierra Colorada. Distr. — Mexico (Guerrero, Morelos), U.S.A. (Arizona, Texas). Ref. — Painter & Painter, 1962: 19.

NIGROFEMORATUS Painter, 1940: 278 (nom. nov. for *vittatus* Curran). Type-locality: U.S.A., Arizona, Cobati Mts. Distr. — U.S.A. (Arizona), Mexico (Sonora).

*vittatus* Curran, 1930a: 7 (preocc. Painter, 1926). Type-locality: U.S.A., Arizona, Cobati Mts.

SUBFLAVUS Painter, 1926: 76. Type-locality: U.S.A., Arizona, Wilcox. Distr. — U.S.A. (Arizona), Mexico (Sonora).

SYNDESMUS (Coquillett), 1894: 108 (*Thlipsogaster*). Type-locality: U.S.A., s. California. Distr. — U.S.A. (s. states), Mexico (Coahuila).

### Genus HETEROSTYLUM Macquart

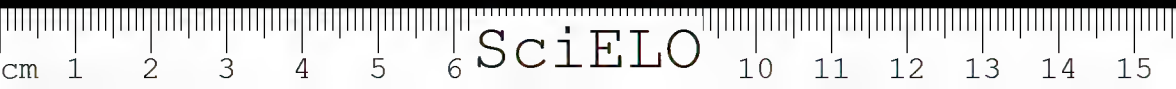
HETEROSTYLUM Macquart, 1848: 195 (1848: 35). Type-species, *flavum* Macquart (orig. des.) = *hirsutum* (Thunberg).

*Comastes* Osten Sacken, 1877: 256. Type-species, *robustus* Osten Sacken (mon.). Ref. — Edwards, 1937: 31.

Ground nesting bees serve as hosts for the immature stages. One species, *robustum* (Osten Sacken), plays an important role in the decimation of populations of the alkali bee, *Nomia melanderi* Cockerell, an important pollinator of alfalfa.

BICOLOR (Loew), 1861: 34 (*Bombylius*). Type-locality: "Cuba". Distr. — Cuba.

DUOCOLOR Painter & Painter, 1974: 21 (nom. nov. for *bicolor* Wulp). Type-locality: Argentina, Córdoba. Distr. — Argentina (Córdoba).



- bicolor* Wulp, 1888: 366, pl. 9, figs. 7-8 (*Comastes*; preocc. Loew, 1861).  
Type-locality: Argentina, Córdoba.
- FERRUGINEUM (Fabricius), 1805: 132 (*Bombylius*). Type-locality: "West Indies". Distr. — St. Thomas (W. I.), Brazil (Roraima, Ceará, Bahia, Mato Grosso, São Paulo), Paraguay, Bolivia. Ref. — Painter & Painter, 1974: 22.
- HAEMORRHOICUM (Loew), 1863: 300 (Cent. 4, nº 46) (*Bombylius*). Type-locality: "Cuba". Distr. — Cuba, Haiti.
- semirufus* Loew, 1872: 78 (Cent. 10, nº 41) (*Bombylius*). Type-locality: "Cuba". Ref. — Painter, 1930a: 2.
- HIRSUTUM (Thunberg), 1827: 67 (*Tanyglossa*). Type-locality: "Brazil". Distr. — Colombia, Venezuela, Brazil, Paraguay, Argentina.
- flavum* Macquart, 1848: 196 (1848: 36), pl. 3, fig. 15. Type-locality: "Brazil".
- xanthobasis* Curran, 1929: 6. Type-locality: Colombia, Magdalena, Sevilano. Ref. — Painter & Painter, 1974: 24.
- PALLIPES Bigot, 1892: 361. Type-locality: "Haiti". Distr. — Haiti. Ref. — Painter & Painter, 1974: 21.
- ROBUSTUM (Osten Sacken), 1877: 257 (*Comastes*). Type-locality: U.S.A., Texas. Distr. — U.S.A. (w. states), Mexico (Baja California, Coahuila, Guerrero, Morelos, Nuevo León, Puebla, Sinaloa, Sonora, Tamaulipas). Ref. — Painter, 1930a: 4.
- RUFUM (Olivier), 1789: 327 (*Bombylius*). Type-locality: "Antilles". Distr. — Mexico (Tabasco), West Indies, Guatemala, Panama. Guyana, Brazil, Argentina (Chaco).
- basilaris* Wiedemann, 1819: 46 (*Bombylius*). Type-locality: "Brazil".
- deustum* Thunberg, 1827: 68 (*Tanyglossa*). Type-locality: "Brazil".
- histrío* Walker, 1849: 293 (*Bombylius*). Type-locality: unknown.
- stigmatias* Knab, 1913: 110. Type-locality: Mexico, Tabasco, Frontera. Ref. — Painter & Painter, 1974: 27.

#### Genus TRIPLOECHUS Edwards

- TRIPLOECHUS Edwards, 1937: 31. Type-species, *Bombylius heteronevrus* Macquart (orig. des.).
- Triplasius*, authors, not Loew.  
Ref. — Paramonov, 1947a: 183.
- ANGUSTIPENNIS Edwards, 1937: 34. Type-locality: Argentina, La Rioja, Patquia. Distr. — Argentina (La Rioja). Ref. — Paramonov, 1947a: 190.
- BELLUS (Philippi), 1865: 649 (*Bombylius*). Type-locality: Chile, Santiago Prov. Distr. — Chile (Santiago, Linares, Arauco, Talca, Curicó, Nuble, Valparaiso).
- minor* Edwards, 1937: 33. Type-locality: Chile, Valparaiso, Marga Marga. Ref. — Hall, 1976a: 52.



HETERONEVRUS (Macquart), 1850: 424 (1850: 120), pl. 11, fig. 10 (*Bombylius*).  
Type-locality: "Chile". Distr. — Chile (Valdivia, Santiago, Osorno, Valparaíso, Malleco, Aconcagua, Ñuble, Linares, Maule, Curicó, Atacama, Coquimbo).

*heteroneurus*, emend.

*ornatus* Rondani, 1863: 69 (*Bombylius*). Type-locality: "Chile". Ref. — Painter & Painter, 1974: 30; Hall, 1976a: 54.

PALLIPES Edwards, 1937: 34. Type-locality: Chile, Santiago, Las Mercedes. Distr. — Chile (Santiago, Ñuble). Ref. — Hall, 1976a: 55.

VIERECKI Cresson, 1919: 186. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (New Mexico), Mexico (Sonora, Durango, San Luis Potosí).

### Genus LORDOTUS Loew

LORDOTUS Loew, 1863: 303 (Cent. 4, n° 53). Type-species, *gibbus* Loew (mon.). Refs. — Hall, 1954; Johnson & Johnson, 1959b (notes).

A small genus restricted apparently to the western United States and northern Mexico.

APICULUS Coquillett, 1887a: 166. Type-locality: U.S.A., Colorado. Distr. — U.S.A. (w. states), Mexico (Baja California, Sonora). Ref. — Johnson & Johnson, 1959b: 12.

DIVERSUS DIVERSUS Coquillett, 1891a: 198. Type-locality: U.S.A., California. Distr. — U.S.A. (s. California, Arizona), Mexico (Baja California: La Laguna, Sierra Laguna, 10 mi. nw. La Paz). Ref. — Hall, 1954: 16.

DIVISUS Cresson, 1919: 186. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (sw. states), Mexico (Baja California: 10 mi. nw. La Paz, Sierra Laguna, Las Animas).

*niger* Cresson, 1923: 367. Type-locality: U.S.A., New Mexico. Ref. — Hall, 1954: 27.

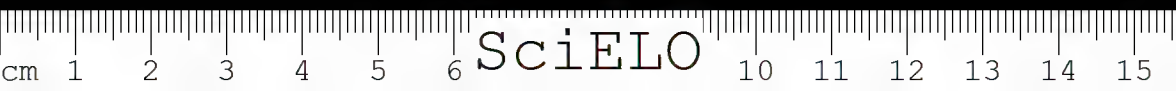
GIBEUS Loew, 1863: 303 (Cent. 4, n° 53). Type-locality: "Mexico". Distr. — U.S.A. (sw. states), Mexico (Sonora: Tehuacán, Agua Prieta).

*flava* Jaennicke, 1867: 346 (1868: 38) (*Adelidea*). Type-locality: "Mexico". Ref. — Hall, 1954: 11.

JUNCEUS Coquillett, 1891a: 198. Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Baja California: Tepoca Bay, San Francisquito Bay; Sonora: Mexicali). Ref. — Hall, 1954: 28.

PULCHRISSIMUS PULCHRISSIMUS Williston, 1893: 64. Type-locality: U.S.A., Nevada. Distr. — U.S.A. (sw. states), Mexico (Baja California: La Paz; Sonora).

*carus* Cresson, 1923: 367. Type-locality: U.S.A., California. Ref. — Hall, 1954: 23.



### Genus SPARNOPOLIUS Loew

SPARNOPOLIUS Loew, 1855: 43. Type-species, *Bombylius fulvus* Wiedemann (Coquillett, 1910: 606) = *therminierii* (Macquart).

A single North American species has been reared from a *Phyllophaga* sp. (Scarabaeidae). Ref. — Hull, 1973: 12.

APERTUS (Macquart), 1847: 70 (1847: 54) (*Bombylius*). Type-locality: "Guadeloupe". Distr. — Guadeloupe. Ref. — Painter & Painter, 1962: 22.

CONFUSUS (Wiedemann), 1824: 60 (*Bombylius*). Type-locality: "Middle America".

*senilis* Fabricius of Wiedemann, 1821: 171 (*Bombylius*), misident. Ref. — Painter & Painter, 1974: 40.

DIVERSUS Williston, 1901: 287. Type-locality: Mexico, Guerrero, Hacienda de la Imagen. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 23.

LHERMINIERII (Macquart), 1840: 103 (1841: 381) (*Bombylius*). Type-locality: U.S.A., "Carolina". Distr. — U.S.A. (c. and s. states), Mexico (Hidalgo).

*fulvus* Wiedemann, 1821: 172 (*Bombylius*; preocc. Meigen, 1804). Type-locality: "North America".

*brevirostris* Macquart, 1840: 103 (1841: 381), pl. 7, fig. 7 (*Bombylius*; preocc. Olivier, 1789). Type-locality: U.S.A., "Carolina".

*fuscipes* Bigot, 1892: 369 (*Dischistus*). Type-locality: "North America". Ref. — Painter & Painter, 1962: 24.

### Genus CONOPHORUS Meigen

CONOPHORUS Meigen, 1803: 263. Type-species, *Bombylius maurus* Mikan (mon.) = *virescens* (Fabricius).

*Ploas* Latreille, 1804: 190. Type-species, *hirticornis* Latreille (sub. mon., Latreille, 1805: 300) = *virescens* (Fabricius).

*Calopelta* Greene, 1921: 23. Type-species, *fallax* Greene (mon.). Ref. — Priddy, 1958 (N. American spp.).

ATRATULUS (Loew), 1872: 79 (Cent. 10, n° 44) (*Ploas*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Baja California: Ensenada). Ref. — Priddy, 1958: 11.

### Genus DISCHISTUS Loew

DISCHISTUS Loew, 1855: 45. Type-species, *Bombylius mystax* Wiedemann (Becker, 1913: 494).

### Subgenus DISCHISTUS Loew

MACULATUS Hall, 1976a: 38. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago, Aconcagua, Atacama, Curicó, Valparaiso).





### Genus MALLOPHTHIRIA Edwards

MALLOPHTHIRIA Edwards, 1930: 169. Type-species, *lanata* Edwards (orig. des.).

LANATA Edwards, 1930: 170. Type-locality: Chile, Concepción. Distr. — Chile (Concepción). Ref. — Hall, 1976a: 46.

### Genus NEODISCHISTUS Painter

NEODISCHISTUS Painter, 1933b: 1. Type-species, *currani* Painter (orig. des.). Ref. — Marston, 1961.

COLLARIS Painter, 1933b: 3. Type-locality: Argentina, Tucumán. Distr. — Brazil (Mato Grosso, São Paulo, Paraná), Bolivia (Santa Cruz), Paraguay (Villarica), Argentina (Tucumán). Ref. — Marston, 1961: 3.

CURRANI Painter, 1933b: 2. Type-locality: Panama, Canal Zone, Corozal. Distr. — Panama, Brazil (Ceará, Goiás, Mato Grosso, Minas Gerais, São Paulo), Argentina (Santiago del Estero). Ref. — Marston, 1961: 5.

### Subfamily CYTHEREINAE

#### Genus PANTARBES Osten Sacken

PANTARBES Osten Sacken, 1877: 254. Type-species, *capito* Osten Sacken (mon.). Ref. — Painter, 1940.

PUSIO Osten Sacken, 1887: 153. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (sw.), Mexico (n. Sonora).

#### Genus SERICOTHRIX Hall

SERICOTHRIX Hall, 1976a: 59. Type-species, *dioedes* Hall (orig. des.).

DIOEDES Hall, 1976a: 59. Type-locality: Chile, Malleco, Cerros de Nahuelbuta, Angol. Distr. — Chile (Malleco).

#### Genus SERICOSOMA Macquart

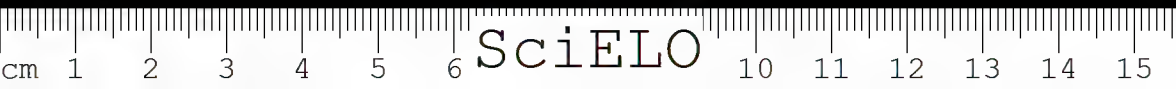
SERICOSOMA Macquart, 1850: 419 (1850: 115). Type-species, *fascifrons* Macquart (orig. des.). Ref. — Hall, 1976a: 60.

ACTIOS Hall, 1976a: 62. Type-locality: Chile, Antofagasta, 9 km n. Paposa. Distr. — Chile (Antofagasta).

ARGENTINAE Paramonov, 1947b: 366. Type-locality: Argentina, Salta. Distr. — Argentina (Salta).

BIGOTIANA Edwards, 1937: 39. Type-locality: "Chile". Distr. — Peru (Chosica Canyon), Chile (Coquimbo). Ref. — Hall, 1976a: 64.

CHILENSIS Hall, 1976a: 65. Type-locality: Chile, Tarapacá, 34.9 km s. Pica. Distr. — Chile (Tarapacá, Coquimbo).



- FASCIFRONS Macquart, 1850: 419 (1850: 115), pl. 11, fig. 1. Type-locality: "Chile". Distr. — Chile (Maule, Valparaiso). Ref. — Painter & Painter, 1974: 51.
- squamiventris* Edwards, 1937: 38. Type-locality: Chile, Valparaiso, Reñaca. Ref. — Hall, 1976a: 66.
- FULVA Edwards, 1937: 39. Type-locality: Chile, Valparaiso, Quebrada Verde. Distr. — Chile (Valparaiso, Santiago). Ref. — Hall, 1976a: 68.
- furva* Edwards in Paramonov, 1947b: 364, emend.
- IRWINI Hall, 1976a: 70. Type-locality: Chile, Atacama, Bahía Copaipo. Distr. — Chile (Atacama, Valparaiso).
- PUEIPES Edwards, 1937: 40. Type-locality: Argentina, Chubut. Distr. — Argentina (Chubut), Chile (Magallanes, Aisen). Ref. — Hall, 1976a: 71.
- ROSSI Hall, 1976a: 72. Type-locality: Chile, Coquimbo, 5 mi. n. Laguna Dam. Distr. — Chile (Coquimbo).
- SP., Brazil, Pernambuco, Arcoverde (Faz. Malhada) (in Mus. Zool., USP).

### Genus CYTHEREA Fabricius

- CYTHEREA Fabricius, 1794: 413. Type-species, *obscura* Fabricius (Becker, 1913: 455).
- Mulio* Latreille, 1796: 155 (unnecessary nom. nov. for *Cytherea* Fabricius). Type-species, *Cytherea obscura* Fabricius (aut.).
- The occurrence of this genus in the Neotropical Region is open to question. The types of the four following species have not been located.
- CINEREA (Lynch Arribáizaga), 1878: 273 (*Mulio*). Type-locality: Argentina, Buenos Aires.
- PUBIA (Macquart), 1846: 243 (1846: 115), pl. 10, fig. 2 (*Mulio*). Type-locality: French Guiana, Cayenne.
- LATERALIS (Rondani), 1868: 35 (*Mulio*). Type-locality: Argentina, Mendoza, San Carlos.
- MARGINALIS (Rondani), 1868: 35 (*Mulio*). Type-locality: Argentina, Buenos Aires, Bahía Blanca.

### Subfamily MYTHICOMYIINAE

#### Genus MYTHICOMYIA Coquillett

- MYTHICOMYIA Coquillett, 1893: 208. Type-species, *rileyi* Coquillett (mon.). Ref. — Melander, 1961: 1; Hall, 1976a: 75.
- AGNASTIS Hall, 1976a: 77. Type-locality: Chile, Santiago, El Canelo. Distr. — Chile (Santiago).
- ANNULATA Melander, 1961: 181. Type-locality: U.S.A., California, Distr. — U.S.A. (sw.), Mexico (Baja California).



- ARMATA Cresson, 1915b: 455. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (sw.), Mexico (Baja California). Ref. — Melander, 1961: 184.
- ATRA Cresson, 1915b: 456. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (sw.), Mexico (Hidalgo). Ref. — Melander, 1961: 185.
- BRACHYTIS Hall, 1976a: 77. Type-locality: Chile, Coquimbo, Fray Jorge National Park. Distr. — Chile (Coquimbo).
- CITRINA Hall, 1976a: 78. Type-locality: Chile, Atacama, 50-60 km s. Copaiipo. Distr. — Chile (Atacama).
- DIASEMA Hall, 1976a: 79. Type-locality: Chile, Santiago, 15 km e. Los Condes. Distr. — Chile (Santiago).
- FLAVIPES Cresson, 1915b: 452. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas), Mexico (Sonora). Ref. — Melander, 1961: 204.
- GAUSA Melander, 1961: 208. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).
- GIBBA Melander, 1961: 209. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Sonora).
- HYALINIPENNIS (Brèthes), 1920: 40 (*Heterohybos*: Empididae). Type-locality: "Chile". Distr. — Chile (Santiago). Ref. — Hall, 1976a: 80.
- ILLUSTRIS Melander, 1961: 215. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Baja California).
- IRRUPTA Melander, 1961: 218. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).
- MACRA Hall, 1976a: 81. Type-locality: Chile, Tarapacá, 53 km s. Victoria. Distr. — Chile (Tarapacá).
- MELANIA Hall, 1976a: 82. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago).
- MINOR Melander, 1961: 224. Type-locality: Mexico, Sonora, 85 km s. of border on road to Point Penasco. Distr. — U.S.A. (s. California), Mexico (Sonora).
- MODESTA Melander, 1961: 227. Type-locality: Mexico, Sonora, nr. Penasco. Distr. — U.S.A. (California), Mexico (Sonora).
- ORNATULA Melander, 1961: 235. Type-locality: U.S.A., Oregon. Distr. — U.S.A. (Oregon, California, Arizona), Mexico (Durango).
- ORTHIS Hall, 1976a: 83. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago).
- PRAVIPES Melander, 1961: 243. Type-locality: U.S.A., California. Distr. — U.S.A. (w. States), Mexico (Durango).
- PROBLIS Hall, 1976a: 84. Type-locality: Chile, Atacama, 30 km s. Vallemar. Distr. — Chile (Atacama).
- PRUINOSA Melander, 1961: 244. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Sonora).
- PUSILLIMA Edwards, 1930: 168. Type-locality: Uruguay, Montevideo. Distr. — Uruguay.

- RHAEBA Melander, 1961: 246. Type-locality: U.S.A., California. Distr. — U.S.A. (California, Arizona), Mexico (Baja California).
- RILEYI Coquillett, 1893: 209. Type-locality: U.S.A., California. Distr. — U.S.A. (sw.), Mexico (Baja California, islands of Gulf of California, Sonora). Ref. — Melander, 1961: 247.
- SCUTELLATA Coquillett, 1903: 102. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (w. states), Mexico (Baja California). Ref. — Melander, 1961: 251.
- TENTHES Melander, 1961: 253. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).
- TREPTA Hall, 1976a: 85. Type-locality: Chile, Santiago, La Rinconada. Distr. — Chile (Santiago).
- TRIFORMIS Melander, 1961: 255. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).
- TUBICEN Melander, 1961: 257. Type-locality: Mexico, Baja California, Los Frailes. Distr. — U.S.A. (Arizona), Mexico (Baja California).

#### Genus GLABELLULA Bezzi

- Platygaster* Zetterstedt, 1838: 574 (preocc. Latreille, 1809). Type-species, *arctica* Zetterstedt (mon.).
- Sphaerogaster* Zetterstedt, 1842: 22 (nom. nov. for *Platygaster* Zetterstedt, but preocc. Dejean, 1821). Type-species, *Platygaster arctica* Zetterstedt (aut.).
- Glabella* Loew, 1873: 210 (preocc. Swainson, 1840). Type-species, *femorata* Loew (mon.).
- GLABELLULA Bezzi, 1902: 191 (nom. nov. for *Platygaster* Zetterstedt). Type-species, *Platygaster arctica* Zetterstedt (aut.).
- Pachyneres* Greene, 1924: 62. Type-species, *crassicornis* Greene (mon.).
- A single species, *arctica*, has been reported as an inquiline in ant nests. Ref. — Andersson, 1974.
- QUEBRADAE Hall, 1976a: 86. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago).
- SP. Hennig, 1972: 15, fig. 27 (wing). Chile, Santiago, Farellones, 2800 m.

#### Subfamily PHTHIRIINAE

##### Genus PHTHIRIA Meigen

- PHTHIRIA Meigen, 1803: 268. Type-species, *Bombylius pulicarius* Mikan (mon.).
- CYCLORHYNCHUS Macquart, 1840: 114 (1841: 392) (as *Cyclorhynchus*, p. 123 [401]; preocc. Kaup, 1829). Type-species, *testaceus* Macquart (orig. des.). Requires a new name.





*Cyclorhynchus* Bezzi, 1924: 3, emend.

POECILOGNATHUS Jaennicke, 1867: 350 (1868: 42). Type-species, *thlipsomyzoides* Jaennicke (mon.).

NEACREOTRICHUS Cockerell, 1917: 377. Type-species, *Acreotrichus atratus* Coquillett (orig. des.).

*Phthiria*, subg. MEGAPHTHIRIA Hall, 1976a: 105. Type-species, *pirioni* Edwards (orig. des.).

Only those species studied are placed in subgenera. Subgenus in square brackets.

ALBIDA Wiedemann, 1821: 242 [*Cyclorhynchus*]. Type-locality: Brazil, Bahia. Distr. — Mexico (Veracruz), Brazil (Bahia, Goiás). Ref. — Painter & Painter, 1974: 53.

ALDRICHI Johnson, 1903: 184 [*Poecilograthus*]. Type-locality: U.S.A., Idaho. Distr. — U.S.A. (Idaho), Honduras (Puerto Castilla).

ALTERANS Williston, 1901: 291 [*Poecilograthus*]. Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 44.

ATRATA (Coquillett), 1904a: 176 (*Acreotrichus*) [*Poecilograthus*]. Type-locality: Mexico, Chihuahua, Sierra Madre, Río Piedras Verdes. Distr. — Mexico (Chihuahua).

AUSTRANDINA Edwards, 1937: 40 [*Phthiria*]. Type-locality: Chile, Valdivia, Casa Pangué. Distr. — Chile (Valdivia, Santiago, Coquimbo, Aconcagua, Malleco, Llanquihue). Ref. — Hall, 1967a: 92.

AZTEC Painter, in Painter & Painter, 1962: 29 [*Phthiria*]. Type-locality: Mexico, Guerrero, 21 mi s. Iguala. Distr. — Mexico (Guerrero).

BADIA Coquillett, 1904a: 174 [*Poecilograthus*]. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas), Honduras (Puerto Castilla).

CANA Philippi, 1865: 653. Type-locality: Chile, Colchagua, San Fernando. Ref. — Hall, 1976a: 261.

CAPNOPENNIS Hall, 1976a: 106 [*Megaphthiria*]. Type-locality: Chile, Valparaíso, Cuesta Pucalán. Distr. — Chile (Valparaíso, Santiago).

CHILENA Rondani, 1863: 65 (as *Phthyria*) [*Phthiria*]. Type-locality: "Chile". Distr. — Chile (Coquimbo, Malleco, Ñuble, Osorno, Santiago, Valdivia, Valparaíso).

*barbata* Rondani, 1863: 65 (as *Phthyria*). Type-locality: "Chile".

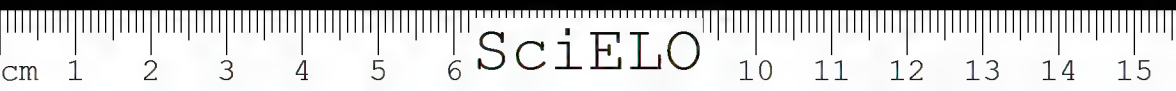
*vulgaris* Philippi, 1865: 652. Type-locality: Chile, Santiago.

*barbata* Philippi, 1865: 654. Type-locality: Chile, Santiago. Refs. — Painter & Painter, 1974: 55; Hall, 1976a: 94.

CINGULATA Loew, 1846: 383 [*Phthiria*]. Type-locality: "Mexico". Distr. — Mexico (Zacatecas, Puebla). Ref. — Painter & Painter, 1962: 31.

CONSORS Osten Sacken, 1887: 155 [*Phthiria*]. Type-locality: Mexico, Durango, Ciudad Durango. Distr. — Mexico (Durango, Guerrero). Ref. — Painter & Painter, 1962: 33.

- DOLOROSA Williston, 1901: 290 [*Phthiria*]. Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero, Puebla, Jalisco).
- sororia Williston, 1901: 291. Type-locality: Mexico, Guerrero, Amula. Ref. — Painter & Painter, 1962: 35.
- EXILIS Philippi, 1865: 653 [*Phthiria*]. Type-locality: None given. Distr. — Chile (Santiago). Ref. — Hall, 1976a: 96.
- FASCIVENTRIS Curran, 1928: 21 [*Phthiria*]. Type-locality: Puerto Rico, Coamo Springs. Distr. — Puerto Rico.
- FULVIDA Coquillett, 1904a: 172 [*Poecilognathus*]. Type-locality: Mexico, Tabasco, Frontera. Distr. — Mexico (Tabasco).
- HOMOCHROMA Hall, 1976a: 97 [*Phthiria*]. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago, Coquimbo, Llanquihue, Malleco, Bío Bío).
- LURIDA Walker, 1857: 146 [*Phthiria*]. Type-locality: Brazil, Pará. Distr. — Brazil (Pará). Ref. — Painter & Painter, 1974: 56.
- MACROSTOMA Hall, 1976a: 107 [*Megaphthiria*]. Type-locality: Chile, Aconcagua, 2 km n. Cabildo. Distr. — Chile (Aconcagua).
- MIXTECA Painter, in Painter & Painter, 1962: 37 [*Phthiria*]. Type-locality: Mexico, Puebla, 6 mi. n. Tehuacán. Distr. — Mexico (Puebla).
- OLMECA Painter, in Painter & Painter, 1962: 38 [*Phthiria*]. Type-locality: Mexico, Guanajuato, 3 mi. n. León. Distr. — Mexico (Guanajuato, Puebla).
- PHILIPPANA Rondani, 1863: 66 (as *Phthyria*) [*Poecilognathus*]. Type-locality: "Chile". Distr. — Chile (Valparaíso, Coquimbo, Santiago). Ref. — Painter & Painter, 1974: 59.
- picta Philippi, 1865: 653. Type-locality: Chile, Santiago. Ref. — Hall, 1976a: 101.
- PIRIONI Edwards, 1937: 41 [*Megaphthiria*]. Type-locality: Chile, Valparaíso, Marga Marga. Distr. — Chile (Valparaíso). Ref. — Hall, 1976a: 108.
- POLODES Hall, 1976a: 109 [*Megaphthiria*]. Type-locality: Chile, Atacama, 50-60 km s. Copaiipo. Distr. — Chile (Atacama, Santiago).
- PULCHELLA Williston, 1901: 288 [*Phthiria*]. Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 41.
- STICTOPENNIS Hall, 1976a: 103 [*Poecilognathus*]. Type-locality: Chile, Coquimbo, Fray Jorge National Park. Distr. — Chile (Coquimbo).
- TESTACEA (Macquart), 1840: 114 (1841: 392), pl. 12, fig. 3 (*Cyclorhynchus*) [*Cyclorhynchus*]. Type-locality: "Brazil". Distr. — Brazil (São Paulo). Ref. — Painter & Painter, 1974: 60.
- THLIPSOAMYZOIDES (Jaenicke), 1867: 351 (1868: 43), pl. 43 (= 1), fig. 11 (*Poecilognathus*) [*Poecilognathus*]. Type-locality: "Mexico". Distr. — Mexico (Guerrero).
- TOLTEC Painter, in Painter & Painter, 1962: 42 [*Phthiria*]. Type-locality: Mexico, Nayarit, 26 mi. se. Tépica. Distr. — Mexico (Nayarit).



TRISTIS Bigot, 1892: 367 [*Phthiria*]. Type-locality: "Chile". Distr. — Chile (Coquimbo, Santiago, Valparaiso). Ref. — Painter & Painter, 1974: 62; Hall, 1976a: 99.

UNIMACULATA Coquillett, 1904b: 32 [*Poecilognathus*]. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (sw.), Mexico (Sonora).

XANTHIOGASTER Hall, 1976a: 104 [*Poecilognathus*]. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago).

#### Subfamily USIINAE

##### Genus APOLYSIS Loew

APOLYSIS Loew, 1860: 86 (also 1860: 269; 1860: 197). Type-species, *humilis* Loew (mon.). Ref. — Melander, 1946 (key).

IRWINI Hall, 1976a: 89. Type-locality: Chile, Santiago, El Canelo. Distr. — Chile (Santiago).

PYGMAEUS (Cole), 1923: 314 (*Rhabdopselaphus*). Type-locality: Mexico, Baja California, San Francisquito Bay. Distr. — Mexico (Baja California).

QUEBRADAE Hall, 1976a: 89. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago).

##### Genus OLIGODRANES Loew

OLIGODRANES Loew, 1844: 160. Type-species, *obscuripennis* Loew (Becker, 1913: 484).

*Rhabdopselaphus* Bigot, 1886: ciii. Type-species, *mus* Bigot (mon.).

*Pseudogeron* Cresson, 1915a: 201. Type-species, *mitis* Cresson (orig. des.). Ref. — Melander, 1946 (key).

ALBOPILUSUS (Cole), 1923: 313 (*Rhabdopselaphus*). Type-locality: Mexico, Baja California, San Francisquito Bay. Distr. — Mexico (Baja California).

TROCHILIDES (Williston), 1901: 292 (*Geron*). Type-locality: Mexico, Guerrero, Acaguizotla. Distr. — Mexico (Guerrero).

##### Genus DESMATOMYIA Williston

DESMATOMYIA Williston, 1895: 268. Type-species, *anomala* Williston (mon.). Ref. — Painter & Painter, 1968a.

BINOTATA Painter, 1968a: 411. Type-locality: Mexico, Sonora, 38 mi. e. Kino. Distr. — Mexico (Sonora, Chihuahua).

#### Subfamily GERONTINAE

##### Genus GERON Meigen

GERON Meigen, 1820: 223. Type-species, *gibbosus* Meigen (Rondani, 1856: 165) = *gibbosus* (Olivier). Ref. — Painter, 1932.

Specimens of this genus have been reared from Lepidoptera larvae belonging to the families Tortricidae, Pyralidae, Psychidae, and Noctuidae (Merle, 1975).

**ALBIDUS** Walker, 1857: 146. Type-locality: Brazil, Amazon. Distr. — Brazil (Amazon). Ref. — Painter & Painter, 1974: 64.

**ALBUS** Cole, 1923: 313. Type-locality: Mexico, Baja California, Coronados Island. Distr. — Mexico (Baja California).

**AURICOMUS** Hall, 1976a: 110. Type-locality: Chile, Santiago, El Canelo. Distr. — Chile (Santiago. Valparaiso).

**CANUS** Philippi, 1865: 654. Type-locality: Chile, Coquimbo. Distr. — Chile (Coquimbo, Santiago). Ref. — Hall, 1976a: 111.

**COLEI**, nom. nov. for *insularis* Cole. Type-locality: Mexico, Baja California, Tiburón Island. Distr. — Mexico (Baja California).

*insularis* Cole, 1923: 313 (preocc. Bigot, 1856). Type-locality: Mexico, Baja California, Tiburón Island.

**HOLOSERICEUS** Walker, 1849: 295. Type-locality: U.S.A., Georgia. Distr. — U.S.A. (Georgia, Kansas), Mexico (Baja California).

*niveoides* Cole, 1923: 312. Type-locality: Mexico, Baja California, San José Island.

*versicolor* Painter, 1932: 156. Type-locality: U.S.A., Kansas. Ref. — Painter & Painter, 1962: 47.

**INSULARIS** (Bigot), 1857a: 332 (*Bombylius*). Type-locality: "Cuba". Distr. — Cuba. Ref. — Painter & Painter, 1962: 47.

**LITORALIS** Painter, 1932: 146. Type-locality: Honduras, Puerto Castilla. Distr. — U.S.A. (Texas), Honduras.

**RUFIPES** Macquart, 1846: 247 (1846: 119). Type-locality: Mexico, Yucatán, Mérida. Distr. — Mexico (Guerrero, Jalisco, Yucatán).

**SENILIS** (Fabricius), 1794: 411 (*Bombylius*). Type-locality: "West Indies". Distr. — Bahamas Islands (Andros, Fortune I, Mayaguana I.), Puerto Rico, Virgin Islands (St. Croix).

### Subfamily SYSTROPINAE

#### Genus SYSTROPUS Wiedemann

**SYSTROPUS** Wiedemann, 1820: 18. Type-species, *macilentus* Wiedemann (mon.).

*Cephenus* Berthold, 1827: 506 (unjustified nom. nov. for *Systropus* Wiedemann). Type-species, *Systropus macilentus* Wiedemann (aut.). Refs. — Carrera & d'Andretta, 1950; Painter & Painter, 1963, 1974.

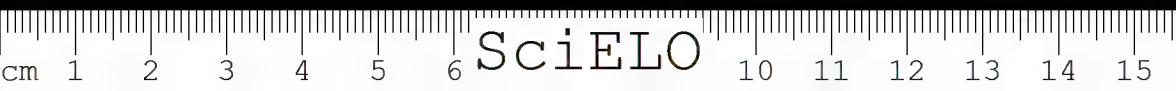
Members of this genus have been reared from the immature stages belonging to the following families of insects: Scarabaeidae, Limacodidae, Mutillidae, and Sphingidae. From the literature it appears that the Limacodidae serve as the principle hosts for *Systropus* species (Merle, 1975). *Systropus* species are also well known for their mimicry of vespoid and sphecoid wasps.





- ACUTUS Painter, in Painter & Painter, 1963: 291. Type-locality: Mexico, Yucatán, 16 km n. Mérida. Distr. — Mexico (Yucatán, Oaxaca).
- ANGULATUS AMMOPHILOIDES Townsend, 1901: 159. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (Arizona, New Mexico, Texas), Mexico (Sonora, Sinaloa, Nayarit, Jalisco, Michoacán). Ref. — Painter & Painter, 1963: 296.
- ARIZONICUS Banks, 1909: 18. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Jalisco, Michoacán, Nuevo León). Ref. — Painter & Painter, 1963: 298.
- BASILARIS Painter, in Painter & Painter, 1963: 301. Type-locality: Mexico, Veracruz, Tulome. Distr. — Mexico (Veracruz).
- BICORNIS Painter, in Painter & Painter, 1963: 302. Type-locality: Mexico, Jalisco, 4 mi. w. Lagos de Moreno. Distr. — Mexico (Jalisco, Michoacán, Nayarit, Oaxaca, Tamaulipas, Veracruz).
- BRASILIENSIS Macquart, 1847: 71 (1847: 55). Type-locality: "Brazil". Refs. — Carrera & d'Andretta, 1950: 303 (as syn. of *nitidus* Wiedemann); Painter & Painter, 1974: 71 (as a distinct species).
- CERDO Osten Sacken, 1887: 158. Type-locality: Panama, Volcán de Chiriquí. Distr. — Panama. Ref. — Painter & Painter, 1963: 305.
- COLUMBIANUS (Karsch), 1880: 657 (*Cephenus*). Type-locality: Colombia, Bogotá. Distr. — Panama (Canal Zone), Colombia, Peru, Brazil (Pará), Ecuador. Ref. — Painter & Painter, 1963: 306, 1974: 73.
- CONOPOIDES Künckel d'Herculais, 1905: 147, pl. 4, figs. 1-15. Type-locality: Argentina, Buenos Aires. Distr. — Venezuela, Brazil, Argentina (Buenos Aires, Salta, Misiones), Uruguay, Paraguay. Refs. — Carrera & d'Andretta, 1950: 303 (as syn. of *nitidus* Wiedemann); Painter & Painter, 1974: 73 (as a distinct species).
- CURRANI Carrera & d'Andretta, 1950: 300. Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo). Ref. — Painter & Painter, 1974: 68.
- DIMIDIATUS Curran, 1942: 53. Type-locality: Brazil, Mato Grosso, Chapada (dos Guimarães). Distr. — Brazil (Mato Grosso, Santa Catarina). Ref. — Painter & Painter, 1974: 74.
- DOLOROSUS Williston, 1901: 293. Type-locality: Mexico, Jalisco. Distr. — Mexico (Jalisco, Yucatán). Ref. — Painter & Painter, 1963: 308.
- FAENOIDES Westwood, 1842: 3. Type-locality: "Mexico". Distr. — Mexico (Veracruz).
- funereus* A. Costa, 1865: 152 (as *Sistropus*). Type-locality: "Mexico". Ref. — Painter & Painter, 1963: 310.
- FEMORATUS (Karsch), 1880: 658 (*Cephenus*). Type-locality: Brazil, Minas Gerais, São João del Rei. Distr. — Brazil (Minas Gerais, São Paulo, Paraná). Refs. — Carrera & d'Andretta, 1950: 297 (as syn. of *fumipennis* Westwood); Painter & Painter, 1974: 74 (as a distinct species).
- FUMIPENNIS Westwood, 1842: 3, 4. Type-locality: "Brazil". Distr. — Brazil (Rio de Janeiro to Santa Catarina).
- niger* Walker, 1849: 1154. Type-locality: "Brazil". Refs. — Carrera & d'Andretta, 1950: 297; Painter & Painter, 1974: 77.

- GEJSKESI Curran, 1942: 52. Type-locality: Surinam, Paramaribo, Kabelstation. Distr. — Surinam, Brazil (Minas Gerais, São Paulo, Santa Catarina). Ref. — Painter & Painter, 1974: 80.
- LANEI Carrera & d'Andretta, 1950: 310. Type-locality: Brazil, São Paulo, São Paulo (Santo Amaro). Distr. — Brazil (São Paulo).
- LUGUBRIS Osten Sacken, 1887: 159. Type-locality: "Mexico". Distr. — Mexico. Ref. — Painter & Painter, 1963: 313.
- MARS Curran, 1942: 51. Type-locality: Argentina, San Juan, Pié de Palo. Distr. — Argentina. Ref. — Painter & Painter, 1974: 80.
- NIGRIPES Painter, in Painter & Painter, 1963: 320. Type-locality: Mexico, Morelos, Huajintlán. Distr. — Mexico (Morelos).
- NITIDUS Wiedemann, 1830: 641. Type-locality: "Brazil". Distr. — Brazil (Amapá to Santa Catarina). Ref. — Carrera & d'Andretta, 1950: 303; Painter & Painter, 1974: 81.
- OLDBOYDI Carrera & d'Andretta, 1950: 314. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- PALOIDES Painter, in Painter & Painter, 1963: 321. Type-locality: Mexico, Tamaulipas, 13 mi. s. Ciudad Monte. Distr. — Mexico (Chiapas, México, Nuevo León, Oaxaca, San Luis Potosí, Tamaulipas, Veracruz).
- PULCHER Williston, 1901: 294. Type-locality: Mexico, Guerrero. Amula. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1963: 324.
- QUADRIPUNCTATUS Williston, 1901: 293. Type-locality: Mexico, n. Yucatán. Distr. — Mexico (Yucatán), Brazil (Rio de Janeiro, Minas Gerais, São Paulo). Ref. — Painter & Painter, 1963: 326.
- REPERTUS Carrera & d'Andretta, 1950: 306. Type-locality: Brazil, São Paulo, São Paulo (Santo Amaro). Distr. — Brazil (São Paulo, Santa Catarina).
- ROGERSI Osten Sacken, 1887: 158. Type-locality: Costa Rica, Irazú. Distr. — Costa Rica. Ref. — Painter & Painter, 1963: 328.
- RUFIVENTRIS Osten Sacken, 1887: 159. Type-locality: "Mexico". Distr. — Mexico (Veracruz, Morelos). Ref. — Painter & Painter, 1963: 329.
- SALLEI A. Costa, 1865: 151 (as *Sistropus*). Type-locality: "Mexico". Distr. — Mexico (Veracruz, Puebla, San Luis Potosí). Ref. — Painter & Painter, 1963: 331.
- SEMIALBUS Painter, in Painter & Painter, 1963: 334. Type-locality: Mexico, Nuevo León, San Pedro Itúrbide, ca. 32 km w. Linares. Distr. — Mexico (Nuevo León, San Luis Potosí).
- SIMILIS Williston, 1901: 294. Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1963: 337.
- VICINUS Painter, in Painter & Painter, 1963: 339. Type-locality: Mexico, Veracruz, Fortín de las Flores. Distr. — Mexico (Veracruz).
- WILLISTONI Curran, 1942: 52. Type-locality: Brazil, Mato Grosso, Chapada (dos Guimarães). Distr. — Venezuela, Brazil (Mato Grosso, São Paulo). Ref. — Painter & Painter, 1974: 82.



XANTHINUS Painter, in Painter & Painter, 1963: 342. Type-locality: Guatemala, Retalhuleu, San Sebastian. Distr. — Guatemala.

### Genus DOLICHOMYIA Wiedemann

DOLICHOMYIA Wiedemann, 1830: 642. Type-species, *nigra* Wiedemann (mon.).

CHILENSIS (Philippi), 1865: 654 (*Systropus*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Valparaíso).

*calopas* Bigot, 1892: 373 (*Systropus*). Type-locality: "Chile". Ref. — Hall, 1976a: 114.

CONIOCERA Hall, 1976a: 116. Type-locality: Chile, Coquimbo, 10 km e. Fray Jorge National Park. Distr. — Chile (Coquimbo, Curicó, Santiago, Valparaíso).

DETECTA Schiner, 1868: 135. Type-locality: "Chile". Distr. — Chile (Concepción). Ref. — Hall, 1976a: 117.

NIGRA Wiedemann, 1830: 642. Type-locality: Venezuela, La Guaira. Distr. — Venezuela.

STENOPENNIS Hall, 1976a: 18. Type-locality: Chile, Concepción, Salto del Laja. Distr. — Chile (Concepción).

### Subfamily TOXOPHORINAE

#### Genus TOXOPHORA Meigen

TOXOPHORA Meigen, 1803: 270. Type-species, *Asilus maculatus* Rossi (sub. mon., Meigen, 1804: 273).

*Eniconeura* Macquart, 1840: 110 (1841: 388). Type-species, *fuscipennis* Macquart (orig. des.).

*Eniconeura*, emend.

*Heniconeura*, emend.

*Toxophora*, subg. *Toxomyia* Hull, 1973: 232. Type-species, *maxima* Coquillett (orig. des.).

Refs. — d'Andretta & Carrera, 1950; Painter & Painter, 1974.

The immature stages attack members of the hymenopterous families Vespidae and Sphecidae.

AMICULA Séguy, 1930: 535. Type-locality: Argentina, Chaco de Santiago del Estero, environs of Icaño. Distr. — Argentina (Santiago del Estero). Refs. — d'Andretta & Carrera, 1950: 372; Painter & Painter, 1974: 83.

AUREA Macquart, 1848: 197 (1848: 37), pl. 3, fig. 14. Type-locality: Brazil, Rio Negro. Distr. — Guyana, French Guiana, Brazil (Rio Negro).

*aurifera* Rondani, 1848: 98. Type-locality: "Brazil".

*dryitis* Séguy, 1930: 532. Type-locality: French Guiana.

*verona* Curran, 1934b: 363. Type-locality: Guyana, Bartica, Kartabo. Refs. — d'Andretta & Carrera, 1950: 357; Painter & Painter, 1974: 84.

- CUPREA (Fabricius), 1787: 366 (*Bombylius*). Type-locality: "Brazil". Distr. — Mexico (Morelos, Nayarit), Panama (Canal Zone), Colombia (Meta), Brazil (Pará, Mato Grosso, Goiás). Refs. — d'Andretta & Carrera, 1950: 354; Painter & Painter, 1974: 87.
- LEPIDOCERA (d'Andretta & Carrera), 1950: 364 (*Eniconeura*). Type-locality: Brazil, São Paulo, Porto Cabral, Rio Paraná. Distr. — Brazil (Pará, São Paulo). Ref. — Lenko, 1970 (biol.).
- LEUCON Séguy, 1930: 533. Type-locality: Argentina, Chaco de Santiago del Estero, margins of Río Salado. Distr. — Bolivia, Paraguay, Argentina (Santiago del Estero). Refs. — d'Andretta & Carrera, 1950: 370; Painter & Painter, 1974: 88.
- MAXIMA Coquillett, 1886c: 222. Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Gulf of California).
- PALLIDA d'Andretta & Carrera, 1950: 360. Type-locality: Brazil, Ceará, Quixadá. Distr. — Brazil (Ceará).
- PELLUCIDA Coquillett, 1886c: 222. Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Baja California).
- TRAVASSOSI (d'Andretta & Carrera), 1950: 369 (*Eniconeura*). Type-locality: Brazil, São Paulo, Porto Cabral, Rio Paraná. Distr. — Brazil (São Paulo).
- TRISTIS (Séguy), 1930: 536 (*Eniconeura*). Type-locality: Cuba, Havana. Distr. — Cuba. Ref. — Painter & Painter, 1974: 89.
- VARIPENNIS Williston, 1901: 294. Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero, Veracruz, Colima, Morelos), Guatemala.
- VIRGATA Osten Sacken, 1877: 266. Type-locality: U.S.A., Texas. Distr. — U.S.A. (sw. states), Mexico (Baja California, Sonora).
- ZUKANI (d'Andretta & Carrera), 1950: 366 (*Eniconeura*). Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil (Rio de Janeiro).

#### Genus LEPIDOPHORA Westwood

- LEPIDOPHORA Westwood, 1835: 447. Type-species, *Ploas aegeriiformis* Gray (mon.) = *lepidocera* (Wiedemann). Ref. — Paramonov, 1949.

Specimens of this genus have been reared from nests of Vespidae and Sphecidae.

- CULICIFORMIS Walker, 1850: 97. Type-locality: Brazil, Pará. Distr. — Brazil (Pará). Ref. — Painter & Painter, 1974: 90.
- CUNEATA Painter, 1939: 43. Type-locality: Paraguay, Barcequillo. Distr. — Trinidad, Bolivia, Paraguay. Ref. — Paramonov, 1949: 637.
- SECUTOR Walker, 1857: 145. Type-locality: Brazil, Amazon. Distr. — Guyana, Peru (Loreto), Brazil (Amazonas). Ref. — Painter & Painter, 1974: 92.
- VETUSTA Walker, 1857: 145. Type-locality: Mexico, Veracruz. Distr. — U.S.A. (Texas), Mexico (Sonora, Sinaloa, Veracruz, Guerrero, Nayarit, Colima, Chiapas, Oaxaca), Guatemala, Costa Rica, Nicaragua. Ref. — Painter & Painter, 1962: 52.





## Genus CYRTOMYA Bigot

*Cyrtophorus* Bigot, 1857b: 292 (preocc. Le Conte, 1850). Type-species, *pictipennis* Bigot (mon.).

CYRTOMYA Bigot, 1892: 340 (nom. nov. for *Cyrtophorus* Bigot). Type-species, *Cyrtophorus pictipennis* Bigot (aut.). Ref. — Hall, 1976a: 120.

CHILENSIS Paramonov, 1931a: 41. Type-locality: Chile, Valparaiso, Limache. Distr. — Chile (Valparaiso, Arauco, Coquimbo, Curicó, Malleco, Ñuble, O'Higgins, Santiago), Argentina (Río Negro). Ref. — Hall, 1976a: 120.

PICTIPENNIS (Bigot), 1857b: 292 (*Cyrtophorus*). Type-locality: "Chile". Distr. — Chile (Santiago, Valparaiso, Coquimbo). Refs. — Painter & Painter, 1974: 94; Hall, 1976a: 123.

## Subfamily ECLIMINAE

### Genus THEVENEMYIA Bigot

THEVENEMYIA Bigot, 1875: clxxiv. Type-species, *californica* Bigot (mon.). *Thevenetimyia* Bigot, 1892: 325, emend.

*Epibates* Osten Sacken, 1877: 268. Type-species, *funestus* Osten Sacken (Coquillett, 1910: 538).

*Eclimus*, authors, not Loew.  
Ref. — Hall, 1969.

AURIPILA (Osten Sacken), 1887: 161 (*Eclimus*). Type-locality: Mexico, Durango, Ciudad Durango. Distr. — U.S.A. (Texas), Mexico (Durango, Sinaloa). Ref. — Hall, 1969: 24.

CULICIFORMIS (Hull), 1965: 95 (*Eclimus*). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Sonora). Ref. — Hall, 1969: 31.

FASCIPENNIS (Williston), 1901: 295 (*Eclimus*). Type-locality: Mexico, Guerrero, Tepetlapa. Distr. — Mexico (Guerrero, Chilpancingo, San Luis Potosí, Morelos, Oaxaca). Ref. — Hall, 1969: 32.

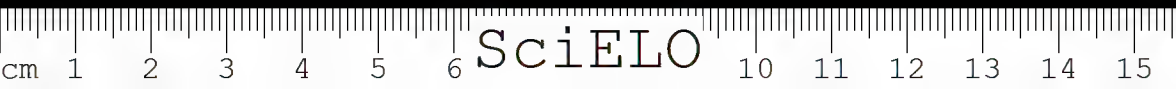
HALLI (Hull), 1965: 96 (*Eclimus*). Type-locality: Mexico, Morelos, Tepotztlán. Distr. — Mexico (Guerrero, Morelos, Sinaloa). Ref. — Hall, 1969: 37.

LUCTIFERA (Osten Sacken), 1877: 271 (*Epibates*). Type-locality: Canada, Vancouver Island. Distr. — Canada (British Columbia), U.S.A. (w. states), Mexico (Nuevo León).

*auripila* Bigot, 1892: 372 (*Amictus*; preocc. Osten Sacken, 1887). Type-locality: U.S.A., Washington Territory.

*aurata* Williston, 1893: 65 (*Eclimus*). Type-locality: U.S.A., Washington. Ref. — Hall, 1969: 47.

MACULIPENNIS (Hull), 1965: 96 (*Eclimus*). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Baja California). Ref. — Hall, 1969: 50.



- MARGINATA (Osten Sacken), 1877: 272 (*Epibates*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Baja California).
- melanosus* Williston, 1893: 65 (*Eclimius*). Type-locality: U.S.A., California.
- yosemite* Cresson, 1919: 183 (*Eclimius*). Type-locality: U.S.A., California. Ref. — Hall, 1969: 55.
- PAINTERORUM Hall, 1969: 67. Type-locality: Mexico, Guerrero, 5 mi. s. Iguala. Distr. — Mexico (Guerrero).
- QUADRATA (Williston), 1901: 295 (*Eclimius*). Type-locality: Mexico, Guerrero, Rincón. Distr. — Mexico (Oaxaca, Guerrero, Morelos, Michoacán). Ref. — Hall, 1969: 69.

### Subfamily CYLLENIINAE

#### Genus CYLLENIA Latreille

- CYLLENIA Latreille, 1802: 429. Type-species, *maculata* Latreille (mon.). = *rustica* (Rossi).
- Sphenoidoptera* Williston, 1901: 295. Type-species, *varipennis* Williston (mon.). Refs. — Painter & Painter, 1962; Hall, 1969.
- VARIPENNIS (Williston), 1901: 296 (*Sphenoidoptera*). Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico (Guerrero). Refs. — Painter & Painter, 1962: 52; Hall, 1969: 3.

#### Genus PARACOSMUS Osten Sacken

- Allocotus* Loew, 1872: 82 (Cent. 10, n° 48) (preocc. Mayr, 1864). Type-species, *edwardsi* Loew (mon.).
- PARACOSMUS Osten Sacken, 1877: 262 (nom. nov. for *Allocotus* Loew). Type-species, *Allocotus edwardsi* Loew (aut.). Ref. — Melander, 1950b.
- MORRISONI Osten Sacken, 1887: 155. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (sw. states), Mexico (Sonora).

#### Genus METACOSMUS Coquillett

- METACOSMUS Coquillett, 1891b: 220. Type-species, *exilis* Coquillett (mon.). Refs. — Melander, 1950b; Hall, 1976a.
- CHILENSIS Hall, 1976a: 125. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago).
- EXILIS Coquillett, 1891b: 221. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).
- SCHLINGERI Hall, 1976a: 126. Type-locality: Chile, Ñuble, Las Trancas Rd., nr. Termas de Chillán. Distr. — Chile (Ñuble).



## Genus AMPHICOSMUS Coquillett

- AMPHICOSMUS Coquillett, 1891b: 219. Type-species, *elegans* Coquillett (mon.).  
CINCTURUS Williston, 1901: 296. Type-locality: Mexico, Guerrero, Venta de Zopilote. Distr. — U.S.A. (California, Arizona), Mexico (Guerrero). Ref. — Painter & Painter, 1962: 57.

## BOMBYLIIDAE TOMOPHTHALMAE

### Subfamily LOMATIINAE

#### Genus OGCODOCERA Macquart

- OGCODOCERA Macquart, 1840: 83 (1841: 361). Type-species, *dimidiata* Macquart (orig. des.) = *leucoprocta* (Wiedemann). Ref. — Paramonov, 1930 (key).

*Oncodocera*, emend.

*Anisotamia*, authors, not Macquart.

- ANALIS Williston, 1901: 283 (as *Oncodocera*). Type-locality: Mexico, Guerrero, Amula. Distr. — U.S.A. (Arizona), Mexico (Guerrero, Morelos, Oaxaca). Ref. — Painter & Painter, 1962: 59.

- LEUCOPROCTA (Wiedemann), 1828: 330 (*Mulio*). Type-locality: Unknown. Distr. — Canada to Mexico. Ref. — Painter & Painter, 1962: 63.

*terminalis* Wiedemann, 1830: 639 (*Anthrax*). Type-locality: U.S.A., Georgia.

*dimidiata* Macquart, 1840: 84 (1841: 362), pl. 15, fig. 1. Type-locality: "North America".

*leucotelus* Walker, 1852: 175 (*Anthrax*). Type-locality: Unknown.

#### Genus BRYODEMINA Hull

- Bryodema* Hull, 1966: 227 (preocc. Fieber, 1853). Type-species, *Anthrax validus* Wiedemann (orig. des.).

- BRYODEMINA Hull, 1973: 314 (nom. nov. for *Bryodema* Hull). Type-species, *Anthrax validus* Wiedemann (aut.).

*Oncodocera*, authors, not Macquart.

*Anisotamia*, authors (part), not Macquart.

- FASCIATA (Williston), 1901: 284 (*Anisotamia*). Type-locality: Mexico, Jalisco, San Blas. Distr. — Mexico (Jalisco, Colima). Ref. — Painter & Painter, 1962: 62.

- VALIDA (Wiedemann), 1830: 636 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (Guerrero, Morelos, Veracruz, Michoacán, Jalisco, San Luis Potosí, Sonora, Chiapas, Oaxaca, México), Nicaragua.

*eximia* Macquart, 1850: 419 (1850: 115), pl. 11, fig. 2 (*Anisotamia*). Type-locality: "Mexico". Ref. — Painter & Painter, 1962: 64.

Genus BRACHYDEMIA Hull, n. stat.

*Bryodemina*, subg. BRACHYDEMIA Hull, 1973: 306 (key), 314. Type-species, *latisoma* Hull (orig. des.).

HEDICKEI (Paramonov), 1930: 417 (*Ogcodocera*). Type-locality: Bolivia, Santa Cruz, Buena Vista. Distr. — Brazil, Bolivia, Argentina. N. comb.

LATISOMA (Hull), 1973: 314, 316 (*Bryodemina*; name applied to Fig. 82 in Williston's 1908 Manual). Type-locality: unknown (but probably Brazil, Mato Grosso, Chapada). N. comb.

Genus APHOEBANTUS Loew

APHOEBANTUS Loew, 1872: 77 (Cent. 10, n° 39). Type-species, *cervinus* Loew (mon.).

*Triodites* Osten Sacken, 1877: 245 (preocc. Gistel, 1848). Type-species, *mus* Osten Sacken (mon.).

*Aphoebantus*, subg. *Triodina* Hull, 1973: 322. Type-species, *Triodites mus* Osten Sacken (orig. des.).

Ref. — Melander, 1950a.

Some species of *Aphoebantus* have been reared from grasshopper egg pods belonging to the Acrididae and Locustidae. Others have been reared, mainly as hyperparasites, from Tiphidae and Sphecidae. The former were parasitizing larvae of Scarabaeidae (Merle, 1975).

ARGENTIFRONS Cole, 1923: 310. Type-locality: Mexico, Gulf of California, Espiritu Santo Island. Distr. — Mexico (Gulf of California).

BISULCUS Osten Sacken, 1887: 148. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona), Mexico (Sonora). Ref. — Melander, 1950a: 23.

CARBONARIUS Osten Sacken, 1887: 149. Type-locality: Mexico, n. Sonora. Distr. — Mexico (Sonora). Ref. — Painter & Painter, 1962: 64.

CERVINUS Loew, 1872: 76 (Cent. 10, n° 39). Type-locality: U.S.A., Texas. Distr. — U.S.A. (sw. states), Mexico (Gulf of California).

CHILENSIS Hall, 1976a: 129. Type-locality: Chile, Tarapacá, 3 km e. Zapahuiré. Distr. — Chile (Tarapacá).

CONURUS Osten Sacken, 1887: 148. Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Guerrero). Ref. — Melander, 1950a: 26; Painter & Painter, 1962: 64.

CYCLOPS Osten Sacken, 1887: 146. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona), Mexico (Sonora). Ref. — Painter & Painter, 1962: 65.

DENTEI d'Andretta & Carrera, 1952: 296. Type-locality: Brazil, Acre, Rio Iquiri, km 49 of Road Rio Branco-Rio Abunã. Distr. — Brazil (Acre).

DESERTUS Coquillett, 1891c: 13. Type-locality: U.S.A., California. Distr. — U.S.A. (California, Arizona), Mexico (Gulf of California). Ref. — Melander, 1950a: 27.





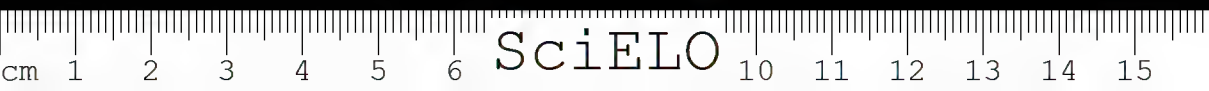
- MARGINATUS Cole, 1923: 310. Type-locality: Mexico, Gulf of California, Tiburón Island. Distr. — U.S.A. (Texas, Arizona, California), Mexico (Gulf of California). Ref. — Melander, 1950a: 34.
- MELANOASTER (Bigot), 1892: 358 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Aconcagua, Atacama, Coquimbo, Curicó, Malleco, Maule, Santiago, Valparaíso). Ref. — Hall, 1976a: 129.
- MICROPYGUS Melander, 1950a: 34. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Sonora).
- MUS (Osten Sacken), 1877: 246 (*Triodites*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Sonora). Ref. — Melander, 1950a: 36.
- OBTECTUS Melander, 1950a: 36. Type-locality: Mexico, Gulf of California, Pt. Penasco. Distr. — U.S.A. (California, Arizona), Mexico (Gulf of California).
- PAVIDUS Coquillett, 1886a: 87. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Gulf of California).
- PELLUCIDUS (Coquillett), 1892b: 10 (*Epacmus*). Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California). Ref. — Melander, 1950a: 38.
- PEODES Osten Sacken, 1887: 149. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Oregon, California, Arizona), Mexico (Sonora). Refs. — Melander, 1950a: 38; Painter & Painter, 1962: 67.
- TARAPACENSIS Hall, 1976a: 131. Type-locality: Chile, Tarapacá, 3 km e. Zapahuiré. Distr. — Chile (Tarapacá).
- TARDUS Coquillett, 1891c: 10. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Gulf of California).
- VULPECULUS Coquillett, 1894: 107. Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Gulf of California). Ref. — Melander, 1950a: 45.

#### Genus DESMATONEURA Williston

- DESMATONEURA Williston, 1895: 267. Type-species, *argentifrons* Williston (mon.).
- ARGENTIFRONS Williston, 1895: 267. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (w. states), Mexico (Sonora).

#### Genus EPACMUS Osten Sacken

- Leptochilus* Loew, 1872: 78 (Cent. 10, n° 40) (preocc. Saussure, 1852). Type-species, *modestus* Loew (mon.).
- EPACMUS Osten Sacken, 1887: 142 (nom. nov. for *Leptochilus* Loew). Type-species, *Leptochilus modestus* Loew (aut.). Ref. — Melander, 1950a.
- MODESTUS (Loew), 1872: 77 (Cent. 10, n° 40) (*Leptochilus*). Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas, New Mexico), Mexico (Sonora, Guerrero).

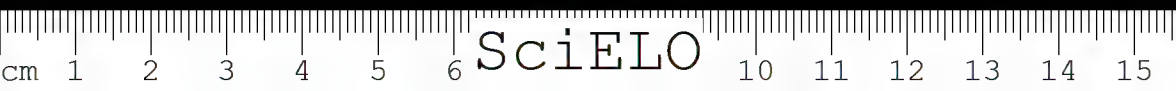


## Genus LYOPHLAEBIA Rondani

- LYOPHLAEBIA Rondani, 1863: 54 (key), 55. Type-species, *lugubris* Rondani (orig. des.).
- Tritoneura* Schiner, 1867: 312 (1868: 133, again as gen. n.). Type-species, *Comptosia lugubris* Philippi (orig. des.) = *lugubris* Rondani.
- Lyophtlaeba*, subg. *Compsella* Hull, 1973: 354. Type-species, *Macrocondyla transandina* Edwards (orig. des.).
- Comptosia*, authors, not Macquart.
- Macrocondyla*, authors (part), not Rondani.
- Ligyra*, authors, not Newman.

## Subgenus LYOPHLAEBIA Rondani

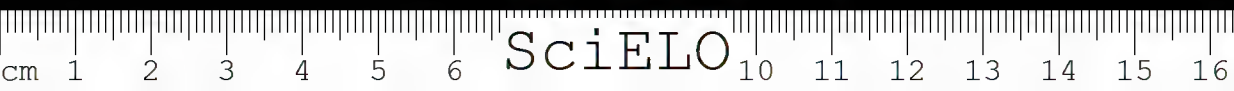
- ALEOPILOSA Hall, 1976a: 136. Type-locality: Chile, Aisén, Chile Chico. Distr. — Chile (Aisén, Coquimbo).
- AMEGISTON Hall, 1973: 154. Type-locality: Argentina, Santa Cruz, 2.4 km s. Fitz Roy. Distr. — Argentina (Santa Cruz, Chubut).
- ARGENTINAE Paramonov, 1940: 31. Type-locality: Argentina, Córdoba, Capilla del Monte. Distr. — Argentina, Córdoba.
- BIFASCIATA (Macquart), 1850: 418 (1850: 114) (*Comptosia*). Type-locality: "Chile". Distr. — Chile (Coquimbo, Valparaíso).
- parabifasciata* Paramonov, 1940: 30. Type-locality: "Chile". Ref. — Hall, 1967a: 137.
- BOLIVIANA Paramonov, 1948: 118. Type-locality: Bolivia, Oruro. Distr. — Bolivia.
- BRACHYGLOSSA Hall, 1976a: 140. Type-locality: Chile, Coquimbo, Guayanay. Distr. — Chile (Coquimbo, Aisén, Malleco, Magallanes).
- CHORISTA Hall, 1973: 149. Type-locality: Argentina, Mendoza, Mendoza. Distr. — Argentina (Mendoza).
- CONSOBRINA (Philippi), 1865: 676 (*Comptosia*). Type-locality: Chile, Santiago, Aconcagua and Colchagua. Distr. — Chile (Santiago, Colchagua, Atacama, Antofagasta, Valparaíso, Aconcagua, Coquimbo).
- blanchardi* Paramonov, 1931a: 30. Type-locality: Chile, Coquimbo.
- minuta* Paramonov, 1931a: 38. Type-locality: Chile, Antofagasta, Taltal. Ref. — Hall, 1976a: 141.
- FLAVOPILOSA Hall, 1976a: 152. Type-locality: Chile, Tarapacá, Latarana. Distr. — Chile (Tarapacá, Antofagasta).
- HYPOXANTHA Hall, 1973: 152. Type-locality: Argentina, Río Negro, Río Colorado. Distr. — Argentina (Río Negro).
- KOSLOWSKY (Edwards), 1930: 171 (*Ligyra*). Type-locality: Argentina, Chubut, Lago Blanco. Distr. — Argentina (Chubut). Ref. — Hall, 1976a: 143.



- LANDBECKI (Philippi), 1865: 677 (*Comptosia*). Type-locality: Chile, Colchagua. Distr. — Chile (Colchagua, Valparaíso, Aconcagua, Concepción, Curicó, Ñuble, Santiago).
- chilensis* Paramonov, 1931a: 34. Type-locality: Chile, Valparaíso, Olmue.
- edwardsi* Paramonov, 1948: 134. Type-locality: Chile, Cordillera. Ref. — Hall, 1976a: 145.
- LUGUBRIS Rondani, 1863: 55. Type-locality: "Chile". Distr. — Chile (Coquimbo, Valparaíso, Santiago, Aconcagua, Atacama, Malleco).
- lugubris* Philippi, 1865: 678 (*Comptosia*). Type-locality: Chile, Santiago, Illapel. Ref. — Hall, 1976a: 153.
- MELANOTHRIX Hall, 1973: 153. Type-locality: Argentina, Chubut, 19.5 km e. Shaman. Distr. — Argentina (Chubut).
- PALLIPENNIS Paramonov, 1940: 34. Type-locality: "Chile". Distr. — Chile. Ref. — Hall, 1976a: 146.
- PENAI Hall, 1976a: 154. Type-locality: Chile, Atacama, 40 km s. Caldera. Distr. — Chile (Atacama).
- PERIDEMA Hall, 1973: 151. Type-locality: Argentina, Neuquén, Zapala. Distr. — Argentina (Neuquén).
- PHILIPPI Paramonov, 1931a: 30. Type-locality: Chile, Coquimbo. Distr. — Chile (Atacama, Coquimbo, Colchagua, Santiago). Ref. — Hall, 1976a: 147.
- SETOSA Paramonov, 1940: 32. Type-locality: "Chile". Distr. — Chile (Aisén, Coquimbo), Argentina (Santa Cruz). Ref. — Hall, 1976a: 149.
- TRANSANDINA (Edwards), 1934: 105 (*Macrocondyla*). Type-locality: Argentina, Santiago del Estero. Distr. — Argentina (Santiago del Estero, Chaco, Córdoba, Mendoza), Uruguay (Canelones). Ref. — Paramonov, 1948: 144.

#### Subgenus MACROCONDYLA Rondani

- MACROCONDYLA Rondani, 1863: 54 (key), 55 (as genus). Type-species, *pictinervis* Rondani (orig. des.).
- BIGOTI (Edwards), 1934: 109 (*Macrocondyla*). Type-locality: "Chile". Distr. — Chile (Linares, Curicó). Ref. — Hall, 1976a: 158.
- CANESCENS (Philippi), 1865: 678 (*Comptosia*). Type-locality: Chile, Santiago. Distr. — Chile (Coquimbo, Curicó, Valparaíso). Ref. — Hall, 1976a: 159.
- FLAVINERVIS (Macquart), 1846: 237 (1846: 109), pl. 9, fig. 10 (*Exoprosopa*). Type-locality: "Colombia". Distr. — Colombia, Argentina (Tucumán). Ref. — Painter & Painter, 1974: 101.
- HAYWARDI (Edwards), 1934: 106 (*Macrocondyla*). Type-locality: Argentina, La Rioja, Patquia. Distr. — Argentina (Rioja). Ref. — Paramonov, 1948: 143.
- HYALINIPENNIS Hall, 1976a: 161. Type-locality: Chile, Coquimbo, Guayanay. Distr. — Chile (Coquimbo, Aisén).



- INFUMATA (Philippi), 1865: 678 (*Comptosia*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Malleco, Arauco, Bio Bio, Curicó, Linares, Nuble). Ref. — Hall, 1976a: 162.
- MANCA (Edwards), 1934: 107 (*Macrocondyla*). Type-locality: Unknown. Distr. — Chile. Ref. — Hall, 1976a: 156.
- MONTANA (Philippi), 1865: 677 (*Comptosia*). Type-locality: Chile, Santiago and Aconcagua. Distr. — Chile (Santiago, Aconcagua, Valparaiso). Ref. — Hall, 1976a: 158.
- PICTINERVIS (Rondani), 1863: 56 (*Macrocondyla*). Type-locality: "Chile". Distr. — Chile (Atacama, Coquimbo, Santiago). Ref. — Painter & Painter, 1974: 106.
- vulgaris* Philippi, 1865: 677 (*Comptosia*). Type-locality: Chile, Santiago. Ref. — Hall, 1976a: 164.

### Genus YLASOIA Speiser

- YLASOIA Speiser, 1920: 213. Type-species, *Anthrax pegasus* Wiedemann (orig. des.).
- ABBREVIATA (Wiedemann), 1830: 637 (*Anthrax*). Type-locality: "Brazil". Distr. — Brazil (São Paulo), Paraguay. Ref. — Painter & Painter, 1974: 109.
- CALOPTERA (Macquart), 1834: 412 (*Lomatia*). Type-locality: "Brazil". Ref. — Painter & Painter, 1974: 110.
- PEGASUS (Wiedemann), 1828: 298 (*Anthrax*). Type-locality: "Brazil". Distr. — Brazil, Argentina (Tucumán, Jujuy). Ref. — Painter & Painter, 1974: 112.

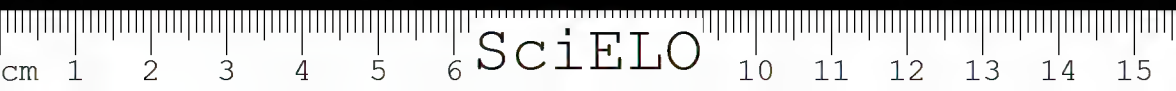
### Genus ULOSOMETA Hull

- ULOSOMETA Hull, 1973: 359. Type-species, *falcata* Hull (orig. des.).
- FALCATA Hull, 1973: 360. Type-locality: Argentina, Tucumán. Distr. — Argentina (Tucumán).

### Subfamily ANTHRACINAE

#### Genus ANTHRAX Scopoli

- ANTHRAX Scopoli, 1763: 358. Type-species, *Musca morio* Linnaeus (mon., misident.) = *anthrax* (Schrank).
- Spogostylum* Macquart, 1840: 53 (1841: 331). Type-species, *mystaceum* Macquart (mon.).
- Spongostylum*, emend.
- Argyromoeba* Schiner, 1860: 51. Type-species, *Anthrax tripunctata* Wiedemann (Coquillett, 1910: 510).
- Argyramoeba*, emend.
- Ref. — Marston, 1963, 1970, 1971.





A number of species of *Anthrax* have been reared from no less than 10 families of Hymenoptera, predominantly Sphecidae, Megachilidae, and Vespidae. Other species have been reared from such diverse hosts as Acrididae, Myrmeleonidae, Cicindelidae, and Noctuidae. For the most part, the species may be considered as primary parasites; a few have, however, been recorded as hyperparasites on Meloidae, Tachinidae, and Chrysidae (Merle, 1975).

*ALBOFASCIATUS ALBOFASCIATUS* Macquart, 1840: 67 (1841: 345) (nom. nov. for  *analis* Macquart). Type-locality: U.S.A., Georgia. Distr. — Canada (e. provinces), U.S.A. (e. and s. states), Mexico (Morelos, Oaxaca, San Luis Potosí, Veracruz), Guatemala, Honduras.

*analis* Macquart, 1834: 407 (preocc. Say, 1823). Type-locality: U.S.A., Georgia.

*antecedens* Walker, 1852: 193. Type-locality: "U.S.A."

*obsoleta* Fabricius of Coquillett, 1894: 95 (*Argyro-moeba*), misident. Ref. — Marston, 1963: 38.

*ANALIS* Say, 1823: 45 (1859: 60). Type-locality: U.S.A., Georgia. Distr. — Widespread throughout Canada, U.S.A., and Mexico to Honduras.

*georgica* Macquart, 1834: 406. Type-locality: U.S.A., Georgia.

*gideon* Fabricius of Coquillett, 1894: 95 (*Argyro-moeba*), misident.

*occidentalis* Johnson, 1913: 56 (*Spongostylum*). Type-locality: U.S.A., Colorado, Denver; and Washington, Seattle. Ref. — Marston, 1970: 88.

*ANGULATUS* Brèthes, 1909: 89. Type-locality: Argentina, Mendoza, Puente del Inca. Distr. — Argentina (Mendoza).

*ANGUSTIPENNIS* Macquart, 1840: 64 (1841: 342), pl. 21, fig. 9. Type-locality: French Guiana, sources of Oyapock River. Distr. — Tropical forests of northern South America, and Serra do Mar in eastern Brazil.

*binotatus* Macquart, 1846: 241 (1846: 131). Type-locality: "Colombia" (as Nouvelle Grenade). Ref. — Marston, 1970: 65.

*ARGYROPYGUS* Wiedemann, 1828: 313. Type-locality: unknown. Distr. — U.S.A. (e. states), Mexico (Veracruz).

*contigua* Loew, 1869: 30 (Cent. 8, n° 50) (*Argyro-moeba*). Type-locality: U.S.A., Virginia. Ref. — Marston, 1970: 68.

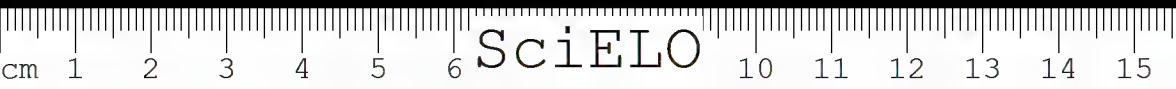
ssp. *ALBOSPARSUS* (Bigot), 1892: 348 (*Argyro-moeba*). Type-locality: "North America, Colorado", interpreted by Marston (1970: 74) to be Tierra Colorado, nr. Acapulco, Mexico. Distr. — Mexico (Guerrero, Morelos, Oaxaca), Guatemala. Ref. — Marston, 1970: 72.

*ATRIPLEX* Marston, 1970: 31. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (sw. states), Mexico (Baja California, Durango, Sonora, Tamaulipas).

*AUSTRINUS* Marston, 1970: 80. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Rio Grande do Sul).

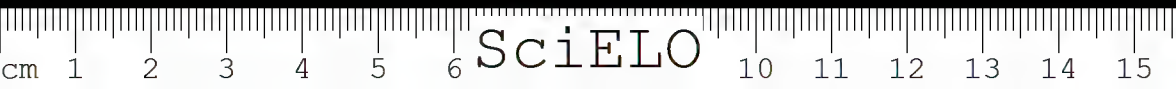
*BALIOPTEROS* Marston, 1970: 105. Type-locality: Brazil, Rio Grande do Sul, Bagé. Distr. — Brazil (São Paulo, Rio Grande do Sul).

- HELLULUS** Philippi, 1865: 675. Type-locality: "Chile". Distr. — Chile (Valparaiso, Santiago, Concepción).
- inappendiculatum* Bigot, 1892: 351 (*Spogostylum*). Type-locality: "Chile". Ref. — Marston, 1970: 102; Hall, 1976a: 168.
- CAATINGENSIS** Marston, 1970: 106. Type-locality: Brazil, Rio Grande do Norte, Mossoró. Distr. — Brazil (Rio Grande do Norte).
- CATHETODAITHMOS** Marston, 1970: 49. Type-locality: Mexico, Colima, 3 mi. e. Colima. Distr. — Mexico (Colima), Panama, Colombia, Peru, Brazil (Amazonas, Pará).
- CEPHUS** Fabricius, 1805: 124. Type-locality: "South America". Distr. — Panama, Costa Rica, Brazil (Amazonas, Mato Grosso, Goiás, São Paulo). Ref. — Marston, 1970: 57.
- CINTALAPA** Cole, 1957: 200. Type-locality: Mexico, Chiapas, Francia, 8 mi. ne. Cintalapa. Distr. — U.S.A. (w. states), Mexico (Sonora to Chiapas and Yucatán), Guatemala, Nicaragua, Costa Rica, Venezuela. Ref. — Marston, 1970: 14.
- CLINOPICTUS** Marston, 1970: 84. Type-locality: Brazil, São Paulo, Onda Verde (Faz. São João). Distr. — Brazil (São Paulo, Paraná), Argentina (Chaco).
- CORDILLERENSIS** Marston, 1970: 21. Type-locality: Chile, Linares, Las Cruces, Cord. Parral. Distr. — Chile (Bío Bío, Concepción, Coquimbo, Linares, Malleco. Maule, Valparaiso, Curicó, Ñuble, Santiago, O'Higgins), Argentina (Rio Negro).
- COSTARICENSIS** Marston, 1970: 63. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica.
- DELICATULUS** Walker, 1849: 266. Type-locality: "Jamaica". Distr. — Jamaica, Dominican Republic. Ref. — Marston, 1970: 76.
- DELILA** (Loew), 1869: 28 (Cent. 8, n° 45) (*Argyromoeba*). Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California). Ref. — Marston, 1970: 115.
- FUNEBRIS** Macquart, 1840: 66 (1841: 344), pl. 21, fig. 10. Type-locality: Dominican Republic. Distr. — Bahamas Islands (Turks, Caicos), Dominican Republic, Haiti. Ref. — Marston, 1970: 91.
- GIDEON** Fabricius, 1805: 124. Type-locality: "South America". Distr. — Mexico (Chihuahua, Veracruz, Guerrero), Guatemala, Puerto Rico, Guyana, French Guiana, Surinam, Peru, Venezuela, Brazil, Paraguay.
- acroleucus* Wiedemann, 1828: 312. Type-locality: "Brazil". Ref. — Marston, 1970: 85.
- propinqua* Schiner, 1868: 123 (*Argyromoeba*). Type-locality: "South America" (Venezuela). Ref. — Marston, 1970: 88 (as "form").
- HYALACRUS** Wiedemann, 1828: 315. Type-locality: "Brazil". Distr. — Panama, Brazil (Amazonas, Pará, São Paulo, Santa Catarina), Peru (Huánuco). Ref. — Marston, 1970: 55.



- HYLAIOS* Marston, 1970: 50. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil (Mato Grosso, Minas Gerais, Rio de Janeiro, São Paulo, Santa Catarina).
- INAQUOSUS* Marston, 1970: 93. Type-locality: Brazil, Rio Grande do Norte, Mossoró. Distr. — Brazil (Rio Grande do Norte).
- INNUBILIPENNIS* Marston, 1970: 74. Type-locality: Mexico, Guerrero, 25 mi. s. Iguala. Distr. — Mexico (Guerrero).
- INORDINATUS* Rondani, 1863: 64. Type-locality: "Chile". Distr. — Chile (Arauco, Aisén, Concepción, Coquimbo, Linares, Malleco, Maule, Ñuble, Santiago, Talca, Valparaíso), Argentina.
- vicinus* Blanchard, 1852: 381 (preocc. Macquart, 1846). Type-locality: "Chile".
- poecilophora* Schiner, 1868: 121 (*Argyromoeba*). Type-locality: "Chile". Ref. — Marston, 1970: 22.
- INSULANUS* Marston, 1970: 26. Type-locality: Bahamas, South Bimini Island. Distr. — Bahamas, Puerto Rico, Haiti.
- IRRORATUS* *IRRORATUS* Say, 1823: 46 (1859: 61). Type-locality: U.S.A., Rocky Mountains. Distr. — Canada, U.S.A., Mexico, Guatemala, Honduras. Ref. — Marston, 1970: 10.
- IATIBASIS* Marston, 1970: 99. Type-locality: Peru, Lima, Matucana. Distr. — Peru (Arequipa, Lima).
- LIMATULUS* *ARTEMESIA* Marston, 1963: 21. Type-locality: U.S.A., Colorado. Distr. — U.S.A. (midw. and w. states), Mexico (Chihuahua, D. F., Zacatecas, Tamaulipas).
- LUCTUOSUS* Macquart, 1840: 70 (1841: 348), pl. 21, fig. 4. Type-locality: unknown. Distr. — Mexico, Costa Rica, Panama, French Guiana, Colombia, Brazil. Ref. — Marston, 1970: 47.
- MACQUARTI* d'Andretta & Carrera, 1952: 296 (nom. nov. for *leucopyga* Macquart, 1855). Type-locality: "South America". Distr. — Venezuela, Surinam, French Guiana, Peru, Bolivia, Paraguay, Brazil.
- leucopyga* Macquart, 1855: 96 (1855: 76), pl. 3, fig. 13 (preocc. Macquart, 1840). Type-locality: "South America". Ref. — Marston, 1970: 77.
- MENDOZANA* Brèthes, 1909: 90. Type-locality: Argentina, Mendoza, Higher Valley of Tupungato. Distr. — Argentina (Mendoza).
- MIDAS* Fabricius, 1805: 124. Type-locality: "South America". Distr. — Mexico (Chiapas, Yucatán), Guyana, Brazil (throughout).
- guyanicus* Curran, 1934b: 362. Type-locality: Guyana, Kartabo.
- mexicanus* Cole, 1957: 202. Type-locality: Mexico, Chiapas. Ref. — Marston, 1970: 53.
- MINIMACULATUS* Oldroyd, 1937: 83. Type-locality: Argentina, Rioja, Patquia. Distr. — Argentina (Rioja). Ref. — Marston, 1970: 104.
- MYSTACEUS* (Macquart), 1840: 53 (1841: 331) (*Spogostylum*). Type-locality: "Brazil or Chile". Distr. — Chile (Santiago, Aconcagua, Coquimbo, Atacama, Ñuble, Valparaíso), Argentina.

- duodecimpunctatus* Philippi, 1865: 670. Type-locality: Chile, Santiago.  
Ref. --- Marston, 1970: 107.
- OEDIPUS Fabricius, 1805: 123. Type-locality: "West Indies". Distr. — U.S.A. (Texas), Mexico, Central America, West Indies, Venezuela, Brazil, Chile.
- punctata* Macquart, 1850: 412 (1850: 108), pl. 10, fig. 7 (*Exoprosopa*).  
Type-locality: "South America".
- punctum* Walker, 1850: 253. Type-locality: "Brazil".
- aequa* Walker, 1852: 192. Type-locality: "Brazil".
- caloptera* Schiner, 1868: 121 (*Argyromoeba*). Type-locality: "South America" (Venezuela). Ref. — Marston, 1970: 16.
- ssp. AQUILUS Marston, 1970: 18. Type-locality: Brazil, Paraná, Jacarezinho. Distr. — Brazil (Minas Gerais, São Paulo to Rio Grande do Sul), Paraguay, Argentina (Buenos Aires, Misiones).
- PERUVIANUS Marston, 1970: 19. Type-locality: Peru, Lima, Pachacámac. Distr. — Peru (Lima, Arequipa, Huánuco, Lambayeque, Piura).
- FLURICELLUS Williston, 1901: 277. Type-locality: Mexico, Veracruz, Atoyac. Distr. — Mexico (Veracruz, Tamaulipas). Ref. — Marston, 1970: 61.
- PLURINOTUS (Bigot), 1892: 350 (*Argyromoeba*). Type-locality: "Chile". Distr. — Chile (Curicó, Maule, Ñuble, Santiago, Talca, Valparaíso), Argentina (Río Negro). Ref. — Marston, 1970: 110.
- PLUTO NIGRIVENTRIS Marston, 1970: 25. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas, Georgia, Florida), Mexico (Guerrero, Morelos, Tamaulipas).
- REPERTUS Walker, 1852: 188. Type-locality: "South America". Distr. — Honduras, Ecuador, Peru, Bolivia, Paraguay, Brazil.
- inexactus* Walker, 1857: 140. Type-locality: Brazil, Amazon Valley. Ref. — Marston, 1970: 81.
- SERIEPUNCTATUS (Osten Sacken), 1887: 103 (*Argyromoeba*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona, New Mexico, Texas), Mexico (Sonora, Puebla, Baja California). Ref. — Marston, 1970: 29.
- SIMSON Fabricius, 1805: 119. Type-locality: "South America". Distr. — Mexico (Guerrero, San Luis Potosí, Tamaulipas), Central America, Venezuela. Ref. — Marston, 1970: 119.
- ssp. HABROSUS Marston, 1970: 120. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (California, Arizona), Mexico (Baja California, Chiapas, Durango, Guerrero, Michoacán, Morelos, Nayarit, Oaxaca, Sinaloa, Sonora).
- SQUALIDUS Philippi, 1865: 672. Type-locality: Chile, Santiago Prov. Distr. — Chile (Coquimbo, Santiago, Aisén, Ñuble).
- crinita* Bigot, 1892: 349 (*Argyromoeba*). Type-locality: "Chile". Ref. — Marston, 1970: 109.





TRIMACULATUS Macquart, 1848: 194 (1848: 34), pl. 3, fig. 11. Type-locality: "Brazil". Distr. — Panama (Canal Zone), Venezuela, Brazil (Paraíba, São Paulo), Uruguay, Argentina (Tucumán).

*imitans* Schiner, 1868: 122 (*Argyromoeba*). Type-locality: "South America" (Venezuela). Ref. — Marston, 1970: 98.

XYLOCOPAE Marston, 1970: 117. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (Arizona, New Mexico, Texas), Mexico (Sonora, Chihuahua).

### Subfamily EXOPROSOPINAE

#### Genus STONYX Osten Sacken

STONYX Osten Sacken, 1886: 94. Type-species, *clelia* Osten Sacken (Coquillett, 1910: 609).

CLELIA Osten Sacken, 1886: 95. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona), Mexico (Sonora). Ref. — Painter & Painter, 1962: 126.

CLOTHO (Wiedemann), 1830: 635 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (México, Michoacán, Oaxaca, Morelos), Panama (Canal Zone). Ref. — Painter & Painter, 1962: 126.

LACERA (Wiedemann), 1830: 634 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (Guerrero, Oaxaca, Michoacán, Jalisco). Ref. — Painter & Painter, 1962: 126.

LELIA Williston, 1901: 274. Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 127.

MELIA Williston, 1901: 274. Type-locality: Mexico, Guerrero, Río Papagaio. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 127.

#### Genus LEPIDANTHRAX Osten Sacken

LEPIDANTHRAX Osten Sacken, 1886: 107. Type-species, *Anthrax disjunctus* Wiedemann (Coquillett, 1910: 559).

*Lepidanthrax*, subg. *Podolepida* Hull, 1973: 386. Type-species, *lutzi* Curran (orig. des.).

Ref. — Hall, 1976b.

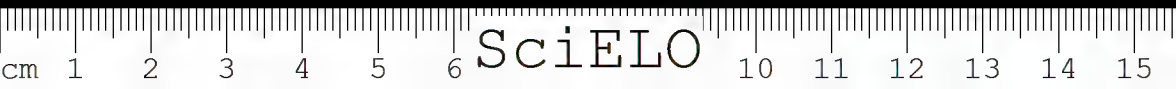
ANGULUS Osten Sacken, 1886: 111. Type-locality: U.S.A., California; Mexico, n. Sonora. Distr. — U.S.A. (California, Arizona), Mexico (Sonora, Baja California). Ref. — Hall, 1976b: 295.

BRACHIALIS (Thomson), 1869: 484 (*Anthrax*). Type-locality: Galápagos Islands. Distr. — Galápagos Is., Peru (Lambayeque). Ref. — Painter & Painter, 1974: 113.

CALIFORNICUS Hall, 1976b: 308. Type-locality: U.S.A., California, San Diego Co. Distr. — U.S.A. (California, Arizona), Mexico (Baja California).

CAPNOPENNIS Hall, 1976b: 324. Type-locality: Mexico, Puebla, 30 mi. sw. Tehuacán. Distr. — Mexico (Puebla).

- CHALCUS Hall, 1976b: 346. Type-locality: U.S.A., California, San Diego Co. Distr. — U.S.A. (California, Arizona), Mexico (Puebla).
- CHORISTUS Hall, 1976b: 319. Type-locality: Mexico, Sonora, Álamos. Distr. — Mexico (Sonora).
- CHRYsus Hall, 1976b: 333. Type-locality: Mexico, Sonora, Guaymas. Distr. — Mexico (Sonora, Baja California).
- DIAMPHUS Hall, 1976b: 317. Type-locality: U.S.A., Arizona, Pima Co. Distr. — U.S.A. (Arizona, Texas), Mexico (Sonora, Baja California).
- DISJUNCTUS (Wiedemann), 1830: 639 (*Anthrax*). Type-locality: "Mexico". Distr. — U.S.A. (Arizona), Mexico (Guerrero, Oaxaca, D.F., Veracruz), Costa Rica, Guatemala. Ref. — Hall, 1976b: 317.
- ELLIPUS Hall, 1976b: 345. Type-locality: U.S.A., California, San Bernardino Co. Distr. — U.S.A. (California), Mexico (Baja California).
- EUTHEMUS Hall, 1976b: 295. Type-locality: U.S.A., California, Riverside Co. Distr. — U.S.A. (California, Arizona), Mexico (Baja California).
- FUSCIPENNIS Hall, 1976b: 307. Type-locality: Mexico, Oaxaca, 42 mi. s. Huajuapán de León. Distr. — Mexico (Jalisco, Oaxaca).
- HESPERUS Hall, 1976b: 351. Type-locality: U.S.A., Santa Cruz Co., Arizona. Distr. — U.S.A. (Arizona, California, New Mexico, Texas), Mexico (Sonora, Baja California, Sinaloa).
- HYALINIPENNIS Cole, 1923: 307. Type-locality: Mexico, Baja California, Espiritu Santo Island. Distr. — U.S.A. (California, Arizona), Mexico (Baja California, Sonora). Ref. — Hall, 1976b: 366.
- HYPOMELAS Hall, 1976b: 298. Type-locality: U.S.A., California, Riverside Co. Distr. — U.S.A. (California, Arizona), Mexico (Sonora).
- HYPOSCELUS Hall, 1976b: 315. Type-locality: Mexico, Morelos, Tepalcingo. Distr. — Mexico (Morelos, Guerrero, Puebla).
- INDECISUS Curran, 1930a: 4. Type-locality: Mexico, Guerrero, Hacienda de la Imagen. Distr. — Mexico (Guerrero, Michoacán, Guanajuato, Morelos, Hidalgo). Ref. — Hall, 1976b: 312.
- LITUS Hall, 1976b: 325. Type-locality: Mexico, Guerrero, 7 mi. n. Chilpancingo. Distr. — Mexico (Guerrero, Morelos).
- LUTZI Curran, 1930a: 2. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (California, Arizona, New Mexico), Mexico (throughout).
- morna* Curran, 1930a: 3. Type-locality: U.S.A., Arizona. Ref. — Hall, 1976b: 310.
- MORPHNUS Hall, 1976b: 314. Type-locality: U.S.A., Arizona, Cochise Co. Distr. — U.S.A. (Arizona), Mexico (Sonora, Guanajuato, San Luis Potosí, Morelos).
- PAINTERORUM Hall, 1976b: 311. Type-locality: Mexico, Nuevo León, 7 mi. w. Iturbide. Distr. — Mexico (Nuevo León, San Luis Potosí).
- PANAMENSIS Curran, 1930a: 5. Type-locality: Panama, Canal Zone, Patilla Point. Distr. — El Salvador, Panama. Ref. — Hall, 1976b: 323.



- PERIPHANUS Hall, 1976b: 326. Type-locality: Mexico, Guerrero, 7 mi. n. Chilpancingo. Distr. — Mexico (Guerrero).
- PERISTIGUS Hall, 1976b: 337. Type-locality: Mexico, Morelos, 18 mi. se. Cuautla. Distr. — Mexico (Morelos, Guerrero, Sinaloa).
- PIHOTINUS Hall, 1976b: 355. Type-locality: Mexico, Puebla, 30 mi. se. Tehuacán. Distr. — Mexico (Puebla, Morelos, Guerrero).
- PROBOSCIDEUS (Loew), 1869: 17 (Cent. 8, n° 27) (*Anthrax*). Type-locality: Mexico, Sonora. Distr. — U.S.A. (w. states), Mexico (Sonora, Baja California, Guerrero, Durango), El Salvador. Ref. — Hall, 1976b: 320.
- QUINQUEPUNCTATUS (Thomson), 1869: 484 (*Anthrax*). Type-locality: "Panama". Distr. — Panama. Ref. — Painter & Painter, 1962: 129.
- RAUCHI Hall, 1976b: 305. Type-locality: Mexico, Sinaloa, 65 mi. e. Potrerillos. Distr. — U.S.A. (Arizona), Mexico (Sinaloa, Guanajuato, San Luis Potosí, Hidalgo, Durango, Veracruz).
- SALVADORENSIS Hall, 1976b: 322. Type-locality: El Salvador, Cerro Las Mesas, 5.3 km e. Quezaltepeque. Distr. — El Salvador.
- SONORENSIS Hall, 1976b: 321. Type-locality: Mexico, Sonora, 38 mi. n. Hermosillo. Distr. — U.S.A. (Arizona), Mexico (Sonora).
- TINCTUS (Thomson), 1869: 483 (*Anthrax*). Type-locality: Galápagos Islands. Distr. — Galápagos Islands, Peru (Lambayeque). Ref. — Painter & Painter, 1974: 116.

#### Genus DIPALTA Osten Sacken

- DIPALTA Osten Sacken, 1877: 236. Type-species, *serpentina* Osten Sacken (mon.).

Members of this genus have been reared from the immature stages of Myrmeleonidae (Merle, 1975).

- SERPENTINA Osten Sacken, 1877: 237. Type-locality: U.S.A., California. Distr. — U.S.A. (widespread), Mexico (Guerrero, Veracruz, Morelos, San Luis Potosí, Hidalgo, México, Puebla, Sinaloa).

#### Genus NEODIPLOCAMPTA Curran

- NEODIPLOCAMPTA Curran, 1934a: 200. Type-species, *Diplocampta roederi* Curran (orig. des.). Ref. — Hull & Martin, 1974 (rev.).

#### Subgenus NEODIPLOCAMPTA Curran

- ASTRELLA Hull & Martin, 1974: 342. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Sonora).
- BRASILIANA Hull & Martin, 1974: 331. Type-locality: Brazil, Goiás, 20 km. n. São João da Aliança. Distr. — Venezuela (Gran Sabana), Brazil (Goiás).
- DECEMMACULA (Walker), 1857: 139 (*Anthrax*). Type-locality: Brazil, Amazon Valley. Distr. — Brazil (Amazon Valley). Ref. — Painter & Painter, 1974: 119.

- GARAGUAYA Hull & Martin, 1974: 333. Type-locality: Brazil, ?Rio Garaguaia. Distr. — Brazil.
- KROMBEINI Hull & Martin, 1974: 329. Type-locality: Mexico, Veracruz, nr. Tierra Colorada. Distr. — Mexico (Veracruz, Jalapa).
- LAURELLA Hull & Martin, 1974: 344. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- MIRA (Coquillett), 1887b: 179 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Baja California, Sinaloa, Sonora, Durango, Guerrero, San Luis Potosí). Ref. — Hull & Martin, 1974: 329.
- PAINTERI Hull & Martin, 1974: 343. Type-locality: Jamaica, St. Andrew, Cable Hut. Distr. — Jamaica.
- PARADOXA (Jaennicke), 1867: 339 (1868: 31), pl. 44 (= 2), fig. 13 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (Guerrero), Honduras, Panama (Canal Zone). Ref. — Hull & Martin, 1974: 325.
- ssp. AZTECA Hull & Martin, 1974: 324. Type-locality: "Guatemala".
- ssp. IXTA Hull & Martin, 1974: 324. Type-locality: "Honduras".
- PARVA (Loew), 1869: 17 (Cent. 8, n° 26) (*Exoprosopa*). Type-locality: "Cuba". Distr. — Bahamas Islands (Nassau, Abaco, Strangers Cay), Cuba, Jamaica.
- ROEDERI (Curran), 1931: 8 (*Diplocampta*). Type-locality: Puerto Rico, Vieques Island, Salinas. Distr. — Puerto Rico (Vieques Is., St. Thomas Is.). Ref. — Hull & Martin, 1974: 345.
- SPILOPTERA (Wiedemann), 1828: 316 (*Anthrax*). Type-locality: "Brazil". Distr. — Brazil (Goiás). Ref. — Fainter & Painter, 1974: 121.

#### Subgenus AGITONIA Hull

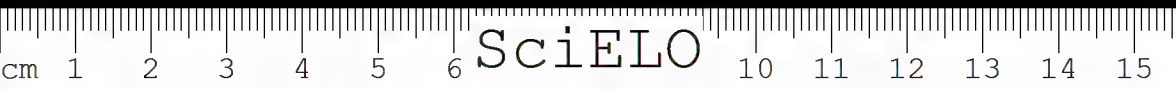
- Neodiplocampta*, subg. AGITONIA Hull, 1966: 225. Type-species, *sepia* Hull (orig. des.).
- SEPIA Hull, 1966: 225. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).

#### Genus ASTROPHANES Osten Sacken

- ASTROPHANES Osten Sacken, 1886: 106. Type-species, *adonis* Osten Sacken (mon.).
- ADONIS Osten Sacken, 1886: 107. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (w. states), Mexico (Sonora). Ref. — Painter & Painter, 1962: 132.
- ANDINUS Brèthes, 1909: 91. Type-locality: Argentina, Mendoza, Puente del Inca. Distr. — Argentina (Mendoza).

#### Genus POECILANTHRAX Osten Sacken

- Anthrax*, group POECILANTHRAX Osten Sacken, 1886: 119. Type-species, *alcyon* Say (Coquillett, 1910: 593). Ref. — Painter & Hall, 1960 (rev.).





Cutworms and armyworms (Noctuidae) serve as hosts for the members of this genus with one exception. *P. lucifer* has been reared as a hyperparasite of scarabaeid larvae through Tiphiidae.

ALCYON (Say), 1824: 371 (1859: 252) (*Anthrax*). Type-locality: U.S.A., Northwest Territory. Distr. — U.S.A. (w. states), Mexico (Chihuahua). Ref. — Painter & Hall, 1960: 25.

ARETHUSA (Osten Sacken), 1886: 116 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (w. states), Mexico (Sonora, Veracruz, Morelos, Chiapas, Mexico, Guerrero), Guatemala, Costa Rica. Ref. — Painter & Hall, 1960: 37.

CALIFORNICUS (Cole), 1917: 69 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Baja California). Ref. — Painter & Hall, 1960: 42.

EFFRENUUS (Coquillett), 1887b: 182 (*Anthrax*). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (sw. states), Mexico (Baja California, Sonora, Tamaulipas). Ref. — Painter & Hall, 1960: 49.

FLAVICEPS FLAVICEPS (Loew), 1869: 19 (Cent. 8, n° 29) (*Anthrax*). Type-locality: Mexico, Tamaulipas. Distr. — U.S.A. (New Mexico, Texas, Kansas), Mexico (Tamaulipas, Nuevo León). Ref. — Painter & Hall, 1960: 58.

ssp. FULIGINOSUS (Loew), 1869: 20 (Cent. 8, n° 31) (*Anthrax*; as sp.). Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Baja California, Sonora). Ref. — Painter & Hall, 1960: 62.

INGENS Johnson & Johnson, 1957: 13. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (San Luis Potosí). Ref. — Painter & Hall, 1960: 67.

LUCIFER (Fabricius), 1775: 759 (*Bibio*). Type-locality: "West Indies". Distr. — U.S.A. (s. states), Mexico (Guerrero, Sonora, Chiapas, San Luis Potosí, Tamaulipas, Baja California), Costa Rica, Guatemala, El Salvador, Honduras, Cuba, Haiti, Jamaica, Puerto Rico.

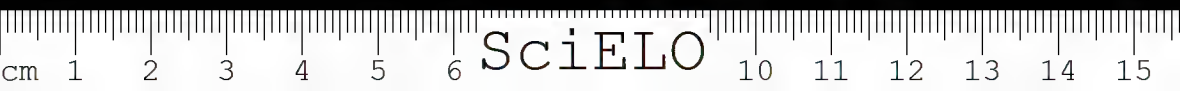
*fumiflamma* Walker, 1852: 184 (*Anthrax*). Type-locality: "Jamaica". Ref. — Painter & Hall, 1960: 74.

MEXICANUS Painter, in Painter & Painter, 1969: 10. Type-locality: Mexico, Morelos, 15 mi. e. Cuernavaca. Distr. — Mexico (Colima, Guerrero, Hidalgo, Morelos, Nuevo León, Puebla, San Luis Potosí, Tamaulipas).

POECILOGASTER POECILOGASTER (Osten Sacken), 1886: 118 (*Anthrax*). Type-locality: Mexico, Sonora. Distr. — U.S.A. (w. states), Mexico (Morelos, Oaxaca, Sonora, Nuevo León). Ref. — Painter & Hall, 1960: 94.

ROBUSTUS Johnson & Johnson, 1957: 20. Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California). Ref. — Painter & Hall, 1960: 98.

VEXATIVUS Painter & Hall, 1960: 119. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (New Mexico, Arizona), Mexico (Chihuahua, México, Puebla, Durango, Nuevo León, Guerrero, Veracruz).



WILLISTONI (Coquillett), 1887b: 181 (*Anthrax*). Type-locality: U.S.A., California. — Distr. — U.S.A. (w. states), Mexico (Baja California). Ref. — Painter & Hall, 1960: 123.

### Genus EXOPROSOPA Macquart

EXOPROSOPA Macquart, 1840: 35 (1841: 313). Type-species, *Anthrax pandora* Fabricius (Coquillett, 1910: 544).

*Exoptata* Coquillett, 1887c: 13. Type-species, *divisa* Coquillett (mon.).

This is a large genus encompassing several hundred species. There have been attempts at arranging the species into subgeneric groupings, but to date, none have come into common usage. No attempt is being made herein to place the species into subgenera.

Members of *Exoprosopa* have been reared from a variety of hosts in the following orders: Orthoptera, Hymenoptera, Diptera, Coleoptera, and Neuroptera (Myrmeleonidae).

ACTITES Painter, in Painter & Painter, 1969: 21. Type-locality: Mexico, Veracruz, 12 mi. s. Tecolutla. Distr. — Mexico (Veracruz, Morelos).

ANTHRACOIDEA Jaennicke, 1867: 340 (1868: 32), pl. 44 (= 2), fig. 18. Type-locality: "Mexico". Distr. — Mexico (Veracruz).

*trabalis* Loew, 1869: 13 (Cent. 8, n° 20). Type-locality: "Mexico".

ANTICA (Walker), 1852: 183 (*Anthrax*). Type-locality: "Colombia". Distr. — Colombia. Ref. — Painter & Painter, 1974: 123.

ARGENTIFASCIATA Macquart, 1846: 237 (1846: 109). Type-locality: "Colombia". Distr. — Mexico (Guerrero, Yucatán, Jalisco, Chiapas, Puebla, Veracruz, Morelos, Oaxaca, San Luis Potosí, Michoacán), Panama, Colombia.

*limbipennis* Macquart, 1846: 238 (1846: 110), pl. 20, fig. 3. Type-locality: Mexico, Yucatán, Mérida. Ref. — Painter & Painter, 1974: 124.

ATRIFES Cole, 1923: 291. Type-locality: Mexico, Baja California, Salinas Bay, Carmen Island. Distr. — Mexico (Baja California).

AZTEC Painter, in Painter & Painter, 1969: 13. Type-locality: Mexico, San Luis Potosí, 19 mi. s. Matehuala. Distr. — Mexico (San Luis Potosí, Coahuila, Morelos).

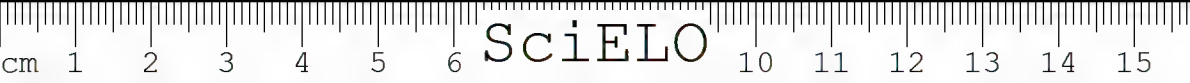
BELLULA Painter, in Painter & Painter, 1969: 22. Type-locality: Mexico, Chiapas, 6 mi. w. Tuxtla Gutiérrez. Distr. — Mexico (Chiapas, Guerrero, México, Morelos, Nayarit, Oaxaca).

BREVIROSTRIS Williston, 1901: 272. Type-locality: Mexico, Jalisco, Santiago Iscuintla. Distr. — Mexico (Jalisco). Ref. — Painter & Painter, 1962: 134.

BREVISTYLATA Williston, 1901: 272. Type-locality: Mexico, Guerrero, Acapulco. Distr. — Mexico (Durango, Puebla, Guerrero, Morelos, Veracruz). Ref. — Painter & Painter, 1962: 136.

PUTLERI Johnson & Johnson, 1959a: 74. Type-locality: "Mexico". Distr. — Mexico (Sonora, Coahuila).

- CALOPTERA (Say), 1823: 46 (1859: 62) (*Anthrax*). Type-locality: U.S.A., Colorado. Distr. — U.S.A. (w. states), Mexico (Durango). Ref. — Painter & Painter, 1962: 137.
- CALLIMA Painter, in Painter & Painter, 1969: 24. Type-locality: Mexico, San Luis Potosí, 19 mi. s. Matehuala. Distr. — Mexico (San Luis Potosí, Hidalgo, Nuevo León, Tamaulipas, Guerrero).
- CASTILLA Painter, 1930b: 796. Type-locality: Honduras, Puerto Castilla. Distr. — Honduras.
- CONVEXA (Walker), 1857: 138 (*Anthrax*). Type-locality: Brazil, Amazon Valley. Distr. — Brazil (Amazon Valley). Ref. — Painter & Painter, 1974: 125.
- CRACENS Painter, in Painter & Painter, 1969: 25. Type-locality: Mexico, Guerrero, 24 mi. n. Chilpancingo. Distr. — Mexico (Guerrero, Morelos).
- CUBANA Loew, 1869: 14 (Cent. 8, n° 22). Type-locality: "Cuba". Distr. — Bahamas Islands (West Caicos Island), Cuba, Puerto Rico.
- DIVISA (Coquillett), 1887c: 13 (*Exoptata*). Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Sonora).
- DORCADION Osten Sacken, 1877: 231. Type-locality: U.S.A., California. Distr. — U.S.A. (widespread), Mexico (Chihuahua, Coahuila, Guerrero).
- EREMITA Osten Sacken, 1877: 236. Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Baja California).
- FASCIOLATA Painter, in Painter & Painter, 1969: 28. Type-locality: Mexico, Morelos, 12 mi. s. Cuernavaca. Distr. — Mexico (Morelos, Guerrero, Veracruz).
- FILIA Osten Sacken, 1886: 86. Type-locality: Mexico, Durango, Ciudad. Distr. — Mexico (Durango, Jalisco, Sonora, Sinaloa). Ref. — Painter & Painter, 1962: 139.
- FULGOSA Painter, in Painter & Painter, 1969: 16. Type-locality: Mexico, Jalisco, 12 mi. sw. Tecatitlán. Distr. — Mexico (Colima, Durango, Guerrero, Jalisco, Michoacán, Morelos, Nayarit, Oaxaca, Puebla).
- FUMOSA Cresson, 1919: 177. Type-locality: "Mexico". Distr. — U.S.A. (Arizona), Mexico.
- HULLI Painter, 1930b: 798. Type-locality: U.S.A., Mississippi. Distr. — U.S.A. (s. states), Mexico, Honduras.
- HYALINIPENNIS Cole, 1923: 290. Type-locality: Mexico, Baja California, Angeles Bay. Distr. — Mexico (Baja California).
- IGNIFERA (Walker), 1849: 243 (*Anthrax*). Type-locality: "Jamaica". Distr. — Jamaica. Ref. — Painter & Painter, 1962: 140.
- INGENS Cresson, 1919: 178. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (sw. states), Mexico (Chihuahua).
- INTERRUPTA (Wiedemann), 1828: 273 (*Anthrax*). Type-locality: "Brazil". Distr. — Brazil (São Paulo). Ref. — Painter & Painter, 1974: 127.



- IOTA Osten Sacken, 1886: 82. Type-locality: Mexico, Tehuacán. Distr. — U.S.A. (s. states), Mexico (Puebla, Morelos, Nuevo León, Tamaulipas). Ref. — Painter & Painter, 1962: 141.
- LEON Painter, *in* Painter & Painter, 1969: 18. Type-locality: Mexico, Oaxaca, 4 mi. n. Huajuapán de León. Distr. — Mexico (Puebla, Oaxaca).
- LEPIDA Painter, *in* Painter & Painter, 1969: 29. Type-locality: Mexico, Morelos, 12 mi. e. Cuernavaca. Distr. — Mexico (Morelos).
- MINUSCULA Painter, *in* Painter & Painter, 1969: 31. Type-locality: Mexico, Chiapas, 22 mi. se. Comitán. Distr. — Mexico (Guerrero, Michoacán, Morelos, Chiapas).
- MUS Curran, 1930b: 7. Type-locality: Mexico, Guerrero, Dos Arroyos. Distr. — Mexico (Guerrero, Oaxaca, Morelos, Sinaloa, Puebla).
- NIGROVENTRIS Painter, *in* Painter & Painter, 1969: 32. Type-locality: Nicaragua, Poneloya. Distr. — Mexico (Oaxaca, Chiapas), Costa Rica, Nicaragua.
- NUBIFERA Loew, 1869: 16 (Cent. 8, n° 25). Type-locality: "Cuba". Distr. — Cuba, Bahamas Islands (South Bimini Island).
- IANAMENSIS Curran, 1930b: 9. Type-locality: Panama, Canal Zone, Fort Randolph. Distr. — Panama, Colombia, Brazil (Mato Grosso).
- PARDA Osten Sacken, 1886: 88, pl. 1, fig. 15. Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona), Mexico (Sonora). Ref. — Painter & Painter, 1962: 147.
- PAVIDA Williston, 1901: 273. Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico (Guerrero, Oaxaca, Puebla). Ref. — Painter & Painter, 1962: 148.
- PROCNE Osten Sacken, 1886: 85. Type-locality: Guatemala, Coatepeque. Distr. — Guatemala, El Salvador. Ref. — Painter & Painter, 1962: 149.
- PUEBLENSIS Jaennicke, 1867: 342 (1868: 34), pl. 44 (= 2), fig. 21. Type-locality: "Mexico". Distr. — U.S.A. (widespread), Mexico (Puebla, Guerrero, Nuevo León, Chihuahua). Ref. — Painter & Painter, 1962: 150.
- ROSTRIFERA Jaennicke, 1867: 341 (1868: 34), pl. 44 (= 2), fig. 19. Type-locality: "Mexico". Distr. — U.S.A. (Arizona, New Mexico), Mexico (Sonora, Guerrero, Oaxaca, Jalisco).
- RUFA Painter, *in* Painter & Painter, 1962: 151. Type-locality: "Mexico" Distr. — Mexico.
- SACKENI Williston, 1901: 271. Type-locality: Mexico, Guerrero, Hacienda de la Imagen. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 153.
- SANCTIPauli Macquart, 1840: 50 (1841: 328). Type-locality: Brazil, n. São Paulo. Distr. — Brazil (São Paulo), Argentina (Rioja, Mendoza). Ref. — Painter & Painter, 1974: 129.
- SOCIA Osten Sacken, 1886: 87. Type-locality: Mexico, Durango, Ciudad. Distr. — Mexico (Durango, Guerrero, Amula). Ref. — Painter & Painter, 1962: 155.



- SOLA Painter, 1939: 42. Type-locality: Peru, Lima. Distr. — Peru (Lima).
- SORDIDA Loew, 1869: 14 (Cent. 8, n° 21). Type-locality: Mexico, Tamaulipas, Matamoros. Distr. — Mexico (Tamaulipas).
- SPADIX Painter, 1933b: 6. Type-locality: Panama, Canal Zone, Bruja Point. Distr. — Panama (Canal Zone).
- SUBFASCIA (Walker), 1849: 249 (*Anthrax*). Type-locality: "Jamaica". Distr. — Jamaica. Ref. — Painter & Painter, 1962: 156.
- THOMAE (Fabricius), 1805: 125 (*Anthrax*). Type-locality: W. I., St. Thomas Island. Distr. — W. I. (St. Thomas). Ref. — Painter & Painter, 1962: 157.
- TIBURONENSIS Cole, 1923: 291. Type-locality: Mexico, Baja California, Tiburón Island, Willard's Point Bay. Distr. — Mexico (Baja California).
- URAGUAYI Macquart, 1840: 50 (1841: 328), pl. 18, fig. 8. Type-locality: Uruguay, from the mouth of the Uruguay River to the Misiones. Distr. — Uruguay. Ref. — Painter & Painter, 1974: 131.

*uruguayi*, error or emend.

- VARICOLOR Macquart, 1846: 236 (1846: 108). Type-locality: Brazil, Minas Gerais. Distr. — Brazil (Minas Gerais, São Paulo). Ref. — Painter & Painter, 1974: 133.

#### Genus LIGYRA Newman

- LIGYRA Newman, 1841: 220. Type-species, *Anthrax bombyliiformis* MacLeay (mon.) = *sylvanus* (Fabricius).

- Velocia* Coquillett, 1886b: 158 (preocc. Robineau-Desvoidy, 1863). Type-species, *Anthrax cerberus* Fabricius (mon.).

*Hyperalonia*, authors, not Rondani.

Larvae of this genus are parasitic on Hymenoptera, especially the Tiphidae, Scolidae, and Sphecidae. A single species is recorded as parasitic on Asilidae (Merle, 1975).

- ALACER Painter, in Painter & Painter, 1969: 6. Type-locality: Mexico, Oaxaca, 54 mi. e. Tehuantepec. Distr. — Mexico (Oaxaca, Chiapas, Colima, Guerrero, Jalisco, Morelos, Puebla, Tamaulipas, Veracruz), Guatemala.

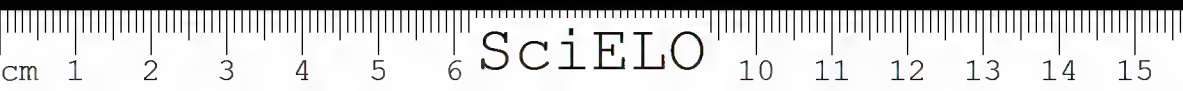
- LIZONA (Walker), 1850: 97 (*Exoprosopa*). Type-locality: Brazil, Pará. Distr. — Brazil (Pará). Ref. — Painter & Painter, 1974: 136.

- CERBERUS (Fabricius), 1794: 256 (*Anthrax*). Type-locality: "West Indies". Distr. — Bahamas Islands (Nassau, Mona, St. Croix, Virgin I., Bimini), Puerto Rico, Jamaica.

- servillei* Macquart, 1840: pl. 16, fig. 3 (*Exoprosopa*; illustrated only). Type-locality: unknown. Ref. — Painter & Painter, 1974: 138.

- gurgantua* Knab, 1915: 48 (*Hyperalonia*). Type-locality: Jamaica, Santa Cruz Mts., St. Elizabeth.

- ssp. TRIFIGURATA (Walker), 1860: 285 (*Anthrax*). Type-locality: "Haiti".  
Distr. — Haiti. Ref. — Painter & Painter, 1974: 142.
- DIDO (Osten Sacken), 1886: 91, pl. 1, fig. 17 (*Hyperalonia*). Type-locality:  
Mexico, Tres Marias Island. Distr. — Mexico (Tres Marias I.).
- EVANSI Painter, in Painter & Painter, 1969: 9. Type-locality: Mexico,  
Morelos, s. end of Cuernavaca. Distr. — Mexico (Morelos, Oaxaca,  
Puebla), Costa Rica.
- FENESTELLA (Wiedemann), 1828: 562 (*Anthrax*). Type-locality: "Surinam".  
Distr. — Surinam. Ref. — Painter & Painter, 1974: 143.
- FENESTRALIS (Wiedemann), 1830: 633 (*Anthrax*). Type-locality: Brazil, Pará.  
Distr. — Brazil (Amazonas, Pará, Mato Grosso, São Paulo). Ref.  
— Painter & Painter, 1974: 144.
- FLAVOSPARGA (Bigot), 1892: 343 (*Hyperalonia*). Type-locality: "Brazil". Distr.  
— Brazil. Ref. — Painter & Painter, 1974: 146.
- GAZOPHYLAX (Loew), 1869: 12 (Cent. 8, n° 18) (*Exoprosopa*). Type-locality:  
U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Sonora,  
Sinaloa, Nayarit, Guerrero, Oaxaca, Veracruz), Guatemala,  
Honduras, Panama.
- GUERINII (Macquart), 1846: 236 (1846: 108), pl. 9, fig. 8 (*Exoprosopa*). Type-  
locality: "Brazil". Distr. — Costa Rica, Panama, Ecuador (Napo),  
Venezuela, Brazil. Ref. — Painter & Painter, 1974: 148.
- HARPIA (Wiedemann), 1828: 254 (*Anthrax*). Type-locality: "Brazil". Distr.  
— Haiti, Venezuela (Bolívar), Brazil.
- phlegeton* Walker, 1849: 236 (*Anthrax*). Type-locality: "Brazil". Ref.  
— Painter & Painter, 1974: 150.
- HELA (Erichson), 1848: 608 (*Anthrax*). Type-locality: "Guyana". Distr. —  
Mexico (Sonora, Sinaloa, Veracruz), Guatemala, Honduras, Pa-  
nama, Costa Rica, Guyana, Venezuela.
- albiventris* Macquart, 1848: 193 (1848: 33), pl. 3, fig. 8 (*Exoprosopa*;  
*preocc.* Macquart, 1840). Type-locality: "Rio Negro". Ref. —  
Painter & Painter, 1974: 152.
- KLUGII (Wiedemann), 1830: 632 (*Anthrax*). Type-locality: Brazil, Rio Grande  
do Sul, Caçapava do Sul. Distr. — ?Mexico (Tamaulipas); Brazil  
(Rio Grande do Sul), Paraguay, Uruguay, Argentina (Tucumán).  
Ref. — Painter & Painter, 1974: 154.
- LATREILLEI (Wiedemann), 1830: 633 (*Anthrax*). Type-locality: Mexico,  
Oaxaca. Distr. — Mexico (Oaxaca, México, Tabasco, Yucatán,  
Chiapas), Guatemala, Costa Rica, Honduras, Panama, Jamaica,  
Colombia, Venezuela, Peru, Bolivia, Brazil, Paraguay, Argentina.
- ORCUS (Walker), 1849: 237 (*Anthrax*). Type-locality: "Mexico". Distr. —  
Mexico (Jalisco, Guerrero, Oaxaca, D. F., Zacatecas, Puebla,  
Michoacán, Sonora, Morelos).
- kaupii* Jaenicke, 1867: 340 (1868: 32), pl. 44 (= 2), fig. 17 (*Exopro-  
sopa*). Type-locality: "Mexico".



- PLATEI* (Macquart), 1846: 238 (1846: 110) (*Exoprosopa*). Type-locality: Mexico, Yucatán, Mérida. Distr. — U.S.A. (Arizona), Mexico (Sinaloa, Oaxaca, Morelos, Yucatán, Chiapas).
- PROMETHEUS* (Macquart), 1855: 93 (1855: 73), pl. 3, fig. 8 (*Exoprosopa*). Type-locality: "South America". Distr. — South America. Ref. — Painter & Painter, 1974: 158.
- PROSERPINA* (Wiedemann), 1828: 257 (*Anthrax*). Type-locality: Unknown. Distr. — Mexico (Yucatán, Tabasco), Guatemala, Costa Rica, Cuba, Jamaica, Peru, Brazil (Goiás), Paraguay.
- cerberus* Fabricius of Macquart, 1840: 38 (1841: 316) (*Exoprosopa*), misident.
- rufescens* Walker, 1849: 238 (*Anthrax*). Type-locality: Unknown. Ref. — Painter & Painter, 1974: 160.
- STYMPHALIS* (Wiedemann), 1828: 252 (*Anthrax*). Type-locality: Uruguay, Montevideo. Distr. — Venezuela, Uruguay. Ref. — Painter & Painter, 1974: 163.

#### Genus *WALKEROMYIA* Paramonov

- WALKEROMYIA* Paramonov, 1934: 22. Type-species, *Anthrax luridus* Walker (orig. des.). Ref. — Paramonov, 1951: 353.
- A single record shows at least one species, *lurida*, to be parasitic on Xylocopidae (Hull, 1973).
- LURIDA* (Walker), 1857: 139 (*Anthrax*). Type-locality: Brazil, Amazon Valley. Distr. — Trinidad, Brazil (Amazonas), Paraguay. Ref. — Painter & Painter, 1974: 165.
- PLUMIPES* (Philippi), 1873: 307 (*Anthrax*). Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza). Ref. — Paramonov, 1951: 355.

#### Genus *DIPLOCAMPTA* Schiner

- DIPLOCAMPTA* Schiner, 1867: 312 (1868: 119, again as gen. n.). Type-species, *singularis* Schiner (orig. des.) = *conopas* (Philippi). Ref. — Hall, 1976a: 173.
- CONOPAS* (Philippi), 1865: 674 (*Anthrax*). Type-locality: Chile, Santiago Prov. Distr. — Chile (Santiago).
- singularis* Schiner, 1868: 120. Type-locality: "Chile". Ref. — Hall, 1976a: 175.
- EXILIS* Hall, 1976a: 176. Type-locality: Chile, Coquimbo, Fray Jorge National Park. Distr. — Chile (Coquimbo).
- HOMOLOGOS* Hall, 1976a: 177. Type-locality: Chile, Aisén, 5.3 km w. Chile Chico. Distr. — Chile (Aisén), Argentina (Chubut).
- MARNEFI* Hall, 1976a: 179. Type-locality: Chile, Valparaiso, Quebrada Verde. Distr. — Chile (Valparaiso, Santiago).
- PLATYPTERON* Hall, 1976a: 180. Type-locality: Chile, Santiago, El Canelo. Distr. — Chile (Santiago).

SECUNDA Paramonov, 1931a: 45. Type-locality: Chile, Valparaiso, Valparaiso. Distr. — Chile (Valparaiso, Bío Bío, Santiago).

*subsinuata* Oldroyd, 1938: 92. Type-locality: Chile, Bío Bío. Ref. — Hall, 1976a: 182.

### Genus VILLA Lioy

VILLA Lioy, 1864: 732. Type-species, *Anthrax concinnus* Meigen (Coquillett, 1910: 619) = *abbaddon* (Fabricius).

*Anthrax*, group *Hyalanthrax* Osten Sacken, 1887: 134. Type-species, *faustinus* Osten Sacken (Coquillett, 1910: 553).

*Anthrax*, authors, not Scopoli.

The majority of the species have larvae that are parasitic upon Hymenoptera and Lepidoptera although a few are parasites of Diptera and Coleoptera as well as Orthoptera (Merle, 1975).

Only those species seen have been placed within a subgenus.

### Subgenus CHRYSANTHRAX Osten Sacken

*Anthrax*, group CHRYSANTHRAX Osten Sacken, 1886: 121. Type-species, *fulvohirta* Wiedemann (Coquillett, 1910: 523) = *cypris* (Meigen).

ADUMBRATA (Coquillett), 1887b: 176 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).

ARENARIA Hall, 1976a: 230. Type-locality: Chile, Aisén, Chile Chico. Distr. — Chile (Aisén, Nuble, Santiago).

ARENOSA (Coquillett), 1892a: 187 (*Anthrax*). Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (New Mexico), Mexico (Sonora).

ARGENTOSA Painter, 1933b: 8. Type-locality: Panama, Canal Zone, Corozal. Distr. — Panama (Canal Zone).

ASTARTE (Wiedemann), 1830: 637 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (Baja California, Guerrero, Chiapas, Jalisco, Morelos, Oaxaca, Puebla, Veracruz, Nuevo León), Honduras, "South America".

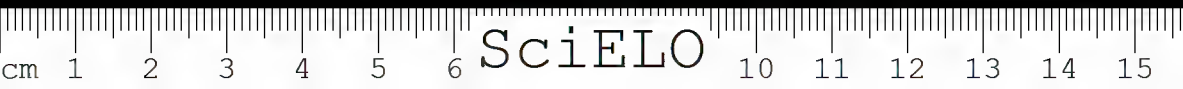
*recta* Walker, 1852: 174 (*Anthrax*). Type-locality: "South America". Ref. — Painter & Painter, 1962: 85, 1974: 269.

CERIA (Williston), 1901: 283 (*Anthrax*). Type-locality: Mexico, Guerrero, La Venta. Distr. — Mexico (Guerrero, Sinaloa, Morelos, San Luis Potosí, Colima, Sonora, Oaxaca).

CONCLUSA (Walker), 1857: 139 (*Anthrax*). Type-locality: Brazil, Amazon Valley. Distr. — Brazil (Amazonas).

*costata* Bigot, 1892: 352 (*Glossista*; part, see Painter & Painter, 1974: 182). Type-locality: Brazil, Amazon.

COSTATA (Bigot), 1892: 352 (*Glossista*; part, see Painter & Painter, 1974: 204). Type-locality: Brazil, Amazon. Distr. — Brazil (Amazonas), Bolivia.



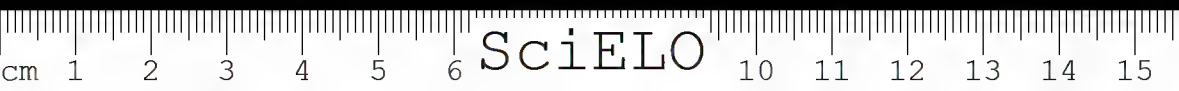


- dorsalis* Walker, 1857: 138 (*Anthrax*; preocc. Walker, 1849). Type-locality: Brazil, Amazon Valley.
- CROCINA (Coquillett), 1892a: 183 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (California, Nevada, Arizona), Mexico (Baja California).
- CYRIS (Meigen), 1820: 158 (*Anthrax*). Type-locality: Unknown (as Europe, error). Distr. — U.S.A. (sw. states), Mexico (Guerrero, Veracruz, Puebla, Oaxaca, Chiapas).
- fulvohirta* Wiedemann, 1821: 99 (149) (*Anthrax*). Type-locality: U.S.A., Georgia. Ref. — Painter & Painter, 1962: 98, 101, 109.
- confacies* Macquart, 1850: 416 (1850: 112), pl. 10, fig. 13 (*Anthrax*). Type-locality: U.S.A., Virginia.
- DICHOTOMA (Schiner), 1868: 119 (*Exoprosopa*). Type-locality: "South America". Distr. — Colombia, Venezuela.
- bipartita* Bigot, 1892: 346 (*Exoprosopa*). Type-locality: "Colombia". Ref. — Painter & Painter, 1974: 192.
- DIMIDIATA (Wiedemann), 1819: 46 (*Anthrax*). Type-locality: "Brazil". Distr. — Brazil, Argentina (Buenos Aires). Ref. — Painter & Painter, 1974: 195.
- DISPAR (Coquillett), 1887b: 177 (*Anthrax*). Type-locality: U.S.A., Florida. Distr. — U.S.A. (widespread), Mexico (Chihuahua, Sonora, Colima, Tamaulipas, Guerrero, Guanajuato).
- EDIDITIA (Say), 1829: 156 (1859: 353) (*Anthrax*). Type-locality: Unknown. Distr. — U.S.A. (widespread), Mexico (Sonora, San Luis Potosí, Morelos, Oaxaca, Veracruz, Durango), Guatemala, Honduras.
- sabulosa* Coquillett, 1892a: 186 (*Anthrax*). Type-locality: U.S.A., California.
- FUSCA (Fabricius), 1805: 117 (*Cytherea*). Type-locality: "South America". Distr. — Bahamas Islands (South Bimini, Turtle, Caicos, Rose, Maya Guana), Jamaica, Puerto Rico, Haiti.
- nero* Fabricius, 1805: 127 (*Anthrax*). Type-locality: "West Indies".
- trimacula* Walker, 1849: 250 (*Anthrax*). Type-locality: "Jamaica". Ref. — Painter & Painter, 1974: 218.
- GORGON (Fabricius), 1805: 126 (*Anthrax*). Type-locality: "West Indies". Distr. — Puerto Rico, Dominica.
- maimon* Fabricius, 1805: 127 (*Anthrax*). Type-locality: "West Indies". Ref. — Painter & Painter, 1962: 110.
- HIRCINA (Coquillett), 1892a: 182 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).
- JUNCTURA (Coquillett), 1887b: 163 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Sonora).
- LITORALIS Hall, 1976a: 231. Type-locality: Chile, Valparaíso, Río Marga Marga. Distr. — Chile (Valparaíso, Coquimbo).
- MULTICOLOR (Bigot), 1892: 352 (*Glossista*). Type-locality: "Chile". Distr. — Chile (Ñuble, Bío Bío, Maule). Ref. — Hall, 1976a: 232.

- NIVEA Cole, 1923: 302. Type-locality: Mexico, Baja California, San Nicolás Bay. Distr. — Mexico (Baja California).
- PHILIPPI (Rondani), 1863: 65 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Arauco, Santiago, Coquimbo, Cautín, Maule, Ñuble, Curicó).  
*fulvago* Philippi, 1865: 669 (*Anthrax*). Type-locality: Chile, Santiago. Ref. — Hall, 1976a: 234.
- PRIMITIVA (Walker), 1849: 257 (*Anthrax*). Type-locality: Galápagos Islands. Distr. — Galápagos Islands. Ref. — Painter & Painter, 1974: 262.
- PROCEDENS (Walker), 1852: 185 (*Anthrax*). Type-locality: "Colombia". Distr. — Colombia. Ref. — Painter & Painter, 1974: 264.
- QUADRIPUNCTATA Cole, 1923: 298. Type-locality: Mexico, Sonora, San Pedro Bay. Distr. — Mexico (Sonora).
- RAVUS Painter, 1933b: 9. Type-locality: Panama, Canal Zone, Patilla Point. Distr. — Panama (Canal Zone).
- RESTITUTA (Walker), 1852: 174 (*Anthrax*). Type-locality: "South America". Distr. — Argentina (Tucumán). Ref. — Painter & Painter, 1974: 269.
- SACKENIANA (Williston), 1901: 276 [*Anthrax* (*Isopenthes*)]. Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Hidalgo, Morelos, Oaxaca, Guerrero, Michoacán).
- SEMLUGENS (Philippi), 1865: 664 (*Anthrax*). Type-locality: Chile, Valdivia Prov. Distr. — Chile (Valparaíso, Bío Bío, Santiago, Ñuble, O'Higgins, Concepción, Cautín, Linares, Curicó, Coquimbo, Valdivia, Aconcagua).
- unicincta* Bigot, 1892: 356 (*Anthrax*). Type-locality: "Chile". Ref. — Hall, 1976a: 237.
- SUBANDINA (Philippi), 1865: 667 (*Anthrax*). Type-locality: Chile, Santiago, Prov. Distr. — Chile (Santiago, Aconcagua, Atacama, Coquimbo, Valparaíso), Peru (Lambayeque). Ref. — Hall, 1976a: 239.
- VANA (Coquillett), 1887b: 180 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Baja California).

#### Subgenus HEMIPENTHES Loew

- HEMIPENTHES Loew, 1869: 28 (Cent. 8, n° 44) (as genus). Type-species, *Musca morio* Linnaeus (Coquillett, 1910: 550).
- Isopenthes* Osten Sacken, 1886: 96. Type-species, *jaennickeana* Osten Sacken (Coquillett, 1910: 556) = *sinuosa* (Wiedemann). Ref. — Painter & Painter, 1962 (key to *celer* group).
- BIGRADATA (Loew), 1869: 23 (Cent. 8, n° 37) (*Anthrax*). Type-locality: "Cuba". Distr. — U.S.A. (California, New Mexico), Bahamas Islands (Bimini, Nassau, Abaco, Strangers Cay), Cuba.
- CHIMAERA (Osten Sacken), 1887: 131 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — Mexico (Sonora, Guerrero). Ref. — Painter & Painter, 1962: 96.



- CONSTITUTA (Walker), 1852: 189 (*Anthrax*). Type-locality: "South America". Ref. — Painter & Painter, 1974: 184.
- CURTA (Loew), 1869: 22 (Cent. 8, n° 35) (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (sw. states), Mexico (Guerrero, Morelos, Yucatán, Veracruz, Sinaloa, Colima, Jalisco, Oaxaca, Nuevo León). Ref. — Painter & Painter, 1962: 101.
- DIFFERENS Hall, 1976a: 249. Type-locality: Chile, Santiago, Quebrada de la Plata, nr. Maipu. Distr. — Chile (Santiago, Arauco, Coquimbo, Curicó, Linares, Malleco, Maule, Ñuble, O'Higgins, Valparaíso).
- DISCOLOR Hall, 1976a: 251. Type-locality: Chile, Aisén, Chile Chico. Distr. — Chile (Aisén, Magallanes).
- DITAENIA (Wiedemann), 1828: 283 (*Anthrax*). Type-locality: Uruguay, Montevideo. Distr. — Peru, Chile, Uruguay, Argentina.  
*maldonadensis* Macquart, 1850: 411 (1850: 107), pl. 10, fig. 6 (*Exoprosopa*). Type-locality: Uruguay, Maldonado. Ref. — Hall, 1976a: 253.
- DIVISA (Walker), 1852: 190 (*Anthrax*). Type-locality: "South America". Ref. — Painter & Painter, 1974: 202.
- EFILAIS (Wiedemann), 1828: 307 (*Anthrax*). Type-locality: "Brazil". Distr. — Brazil. Ref. — Painter & Painter, 1974: 209.
- EUMENES (Osten Sacken), 1887: 131 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (w. states), Mexico (Sonora), Puerto Rico (Anegada Island). Ref. — Painter & Painter, 1962: 102.
- EXTENSA (Wulp), 1888: 367, pl. 10, fig. 1 (*Exoprosopa*). Type-locality: Argentina, Córdoba. Distr. — Argentina (Córdoba, Mendoza).
- GALAPAGENSIS Painter & Painter, 1974: 222 (nom. nov. for *lateralis* Thomson). Type-locality: Galápagos Islands. Distr. — Galápagos Islands.  
*lateralis* Thomson, 1869: 482 (*Anthrax*; preocc. Say, 1823). Type-locality: Galápagos Islands.
- GALATHEA (Osten Sacken), 1886: 123 (*Anthrax*). Type-locality: Costa Rica, Caché. Distr. — Costa Rica. Ref. — Painter & Painter, 1962: 110.
- GAYI (Macquart), 1840: 66 (1841: 344), pl. 21, fig. 5 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (widespread throughout northern half).  
*lemniscata* Philippi, 1865: 664 (*Anthrax*). Type-locality: Chile, mountains of Santiago Prov. Ref. — Hall, 1976a: 255.
- IGNEA (Macquart), 1846: 241 (1846: 113), pl. 9, fig. 13 (*Anthrax*). Type-locality: "Colombia". Distr. — Panama, Colombia, Guyana. Ref. — Painter & Painter, 1974: 233.
- INCISIVA Painter, in Painter & Painter, 1962: 112 (nom. nov. for *incisa* Walker). Type-locality: "North America". Distr. — U.S.A., Mexico (Guerrero).  
*incisa* Walker, 1852: 187 (*Anthrax*; preocc. Macquart, 1847). Type-locality: "North America".
- LEPIDOTA (Osten Sacken), 1887: 130 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (w. states), Mexico (islands in Gulf of

California, Sonora, Guerrero, San Luis Potosí, Puebla, Tamaulipas, Chihuahua). Ref. — Painter & Painter, 1962: 113.

LEUCOCEPHALA (Wulp), 1882: 81, pl. 9, fig. 6 (*Anthrax*). Type-locality: Argentina. Distr. — Argentina (Jujuy). Ref. — Painter & Painter, 1974: 238.

MARTINORUM Painter, in Painter & Painter, 1962: 91. Type-locality: Mexico, Michoacán, 10 mi. s. Apatzingán. Distr. — Mexico (Michoacán).

MELALEUCA (Wiedemann), 1828: 299 (*Anthrax*). Type-locality: Uruguay, Montevideo. Distr. — Argentina (Tucumán, Buenos Aires), Uruguay (Montevideo). Ref. — Painter & Painter, 1974: 242.

MICROMELAS (Bigot), 1892: 358 (*Anthrax*). Type-locality: "Chile" (error). Distr. — Argentina (Buenos Aires). Ref. — Hall, 1976a: 256.

MINAS (Macquart), 1848: 193 (1848: 33), pl. 3, fig. 10 (*Anthrax*). Type-locality: Brazil, Minas Gerais. Distr. — Brazil (Minas Gerais), Argentina (Chaco, Tucumán). Ref. — Painter & Painter, 1974: 246.

NUDIUSCULA (Thomson), 1869: 482 (*Anthrax*). Type-locality: "Panama". Distr. — Panama. Ref. — Painter & Painter, 1962: 119.

OLDROYDI Hall, 1976a: 253 (nom. nov. for *edwardsi* Oldroyd). Type-locality: Chile, ?Rofuco. Distr. — Chile (Concepción, Santiago, Coquimbo, Curicó, Maule, Malleco, Valparaíso).

*edwardsi* Oldroyd, 1938: 86 (preocc. Coquillett, 1894). Type-locality: Chile, ?Rofuco.

PIMA Painter, in Painter & Painter, 1962: 92. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (sw. states), Mexico (Sonora, Sinaloa).

PLEURALIS (Williston), 1901: 282 (*Anthrax*). Type-locality: Mexico, Guerrero, Venta de Zopilote. Distr. — Mexico (Guerrero, Morelos, Nayarit, Puebla, Colima, Chiapas). Ref. — Painter & Painter, 1962: 121.

RUFICOLLIS (Bigot), 1892: 355 (*Anthrax*). Type-locality: "Venezuela". Distr. — Venezuela, Argentina (Tucumán). Ref. — Painter & Painter, 1974: 272.

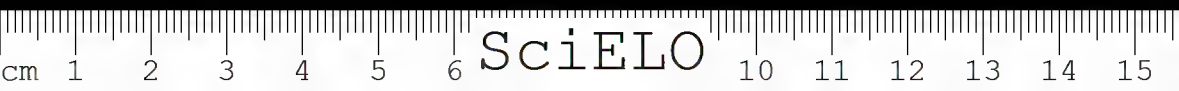
SAGATA (Loew), 1869: 21 (Cent. 8, n° 34) (*Anthrax*). Type-locality: Mexico, Tamaulipas, Matamoros. Distr. — U.S.A. (s. states), Mexico (Guerrero, Puebla, Morelos, Sinaloa), Panama (Canal Zone), Honduras.

*orbitalis* Williston, 1901: 281 (*Anthrax*). Type-locality: Mexico, Guerrero, Rincón. Ref. — Painter & Painter, 1962: 120.

SCYLLA (Osten Sacken), 1887: 132 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona, Texas), Mexico (Sonora), Venezuela.

*succinta* Coquillett, 1894: 96 (*Argyromoeba*). Type-locality: U.S.A., Arizona. Ref. — Painter & Painter, 1962: 123.

SEMIFUCATA Hall, 1976a: 257. Type-locality: Chile, Santiago, Quebrada de la Plata, nr. Maipu. Distr. — Chile (Aconcagua, Atacama, Coquimbo, Santiago, Valparaíso).





SINUOSA BLANCHARDIANA (Jaennicke), 1867: 341 (1868: 33), pl. 44 (= 2), fig. 20 (*Exoprosopa*; as sp.). Type-locality: "Mexico". Distr. — U.S.A. (sw. states), Mexico (Sonora, Guerrero, Puebla).

SINUOSA JAENNICKIANA (Osten Sacken), 1886: 97 (*Isopenthes*; as sp.). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (w. states), Mexico (Sonora).

TARAPACENSIS Hall, 1976a: 258. Type-locality: Chile, Tarapacá, 3 km e. Zapahuire. Distr. — Chile (Tarapacá, Coquimbo).

TENUIROSTRIS (Macquart), 1850: 416 (1850: 112), pl. 10, fig. 12 (*Anthrax*). Type-locality: "South America". Distr. — Peru (Lima, Chosica, Lambayeque, Chiclayo), Chile (Arauco, Coquimbo, Curicó, Linares, Santiago, Valparaíso).

*porteri* Oldroyd, 1938: 85. Type-locality: Chile, Santiago, Santiago. Ref. — Hall, 1976a: 259.

YAQUI Painter, in Painter & Painter, 1962: 94. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona), Mexico (Sonora).

### Subgenus PARANTHRAX Bigot

PARANTHRAX Bigot, 1876: lxvi (as genus). Type-species, *Anthrax rufiventris* Blanchard (orig. des.).

CALOGASTRA (Philippi), 1865: 672 (*Anthrax*). Type-locality: not given (Chile). Distr. — Chile (Coquimbo, Aconcagua, Antofagasta, Curicó, Maule, O'Higgins, Santiago, Valparaíso). Ref. — Hall, 1976a: 215.

RUFIVENTRIS (Blanchard), 1852: 382 (*Anthrax*). Type-locality: Chile, Coquimbo. Distr. — Chile (Coquimbo, Curicó, Malleco, Ñuble, Santiago, O'Higgins, Valparaíso).

*chilensis* Philippi, 1865: 666 (*Anthrax*). Type-locality: Chile, Coquimbo, Illapel. Ref. — Hall, 1976a: 218.

### Subgenus PARAVILLA Painter

Villa, subg. PARAVILLA Painter, 1933a: 10. Type-species, *edititoides* Painter (orig. des.).

CASTANEA (Jaennicke), 1867: 338 (1868: 30), pl. 44 (= 2), fig. 15 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (Morelos, Guerrero, Oaxaca, México, Puebla, Hidalgo, Jalisco), Guatemala.

*hirsuta* Williston, 1901: 279 (*Anthrax*). Type-locality: Mexico, Guerrero, Acaguizotla.

CINEREA Cole, 1923: 299. Type-locality: Mexico, Baja California, Angeles Bay. Distr. — U.S.A. (Arizona, Texas, New Mexico), Mexico (Baja California).

CONSUL (Osten Sacken), 1886: 125 (*Anthrax*). Type-locality: Guatemala, San Gerónimo. Distr. — U.S.A. (Arizona), Mexico (Oaxaca, Morelos, Nuevo León, Chihuahua, Durango, Jalisco, Sonora, Michoacán), Guatemala.

- CUNICULA (Osten Sacken), 1886: 125 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona, Texas), Mexico (Sonora, Baja California).
- DIANELLA Painter, in Painter & Painter, 1962: 101 (nom. nov. for *diana* Williston). Type-locality: Mexico, Guerrero, Acaguizotla. Distr. — Mexico (Durango, Michoacán, Guanajuato, Guerrero, Hidalgo). *diana* Williston, 1901: 280 (*Anthrax*; preocc. Walker, 1849). Type-locality: Mexico, Guerrero, Acaguizotla.
- EDITITOIDES Painter, 1933a: 11. Type-locality: U.S.A., Colorado. Distr. — U.S.A. (w. states), Mexico (México, Durango, Zacatecas, Chihuahua, Jalisco).
- EPHEBA (Osten Sacken), 1886: 124 (*Anthrax*). Type-locality: Mexico, Puebla, Tehuacán. Distr. — U.S.A. (New Mexico), Mexico (Guerrero, Nuevo León, D. F., México, Guanajuato, Zacatecas, Durango, Chihuahua, Hidalgo, Coahuila, Oaxaca, Morelos, Puebla, Jalisco).
- EURHINATA (Bigot), 1892: 355 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (Durango). Ref. — Painter & Painter, 1962: 102.
- FLAVIPILOSA Cole, 1923: 303. Type-locality: Mexico, Baja California, San José Island. Distr. — U.S.A. (sw. states), Mexico (Baja California).
- LEUCOTHOA (Wiedemann), 1830: 638 (*Anthrax*). Type-locality: "Mexico". Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 113.
- MERCEDIS (Coquillett), 1887b: 166 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Sonora).
- PALLIATA (Loew), 1869: 20 (Cent. 8, n° 32) (*Anthrax*). Type-locality: U.S.A., Illinois. Distr. — U.S.A. (midw. states), Mexico (Guerrero, Oaxaca).
- PERPLEXA (Coquillett), 1887b: 176 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Baja California).
- STHENO (Wiedemann), 1828: 582 (*Anthrax*). Type-locality: "Brazil". Ref. — Painter & Painter, 1974: 280.
- SYRTIS (Coquillett), 1887b: 173 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Sonora, Baja California).
- VILLICA (Philippi), 1865: 669 (*Anthrax*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Atacama, Coquimbo, Malleco). Ref. — Hall, 1976a: 247.

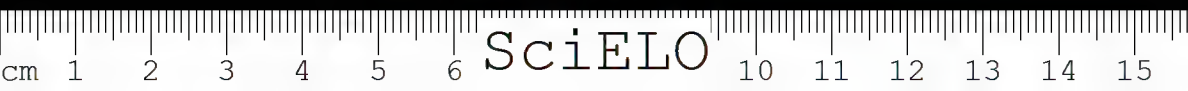
#### Subgenus RHYNCHANTHRAX Painter

- Villa, subg. RHYNCHANTHRAX Painter, 1933a: 6. Type-species, *Anthrax parvicornis* Loew (orig. des.).
- MARIA (Williston), 1901: 283 (*Anthrax*). Type-locality: Mexico, Guerrero, Hacienda de la Imagen. Distr. — Mexico (Guerrero, Morelos). Ref. — Painter & Painter, 1962: 115.

- NIGROFIMBRIATA (Williston), 1901: 282 (*Anthrax*). Type-locality: Mexico, Guerrero, Hacienda de la Imagen. Distr. — Mexico (Guerrero). Ref. — Painter & Painter, 1962: 118.
- QUIVERA Painter, 1933a: 9. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (New Mexico), Mexico (Durango).
- REX (Osten Sacken), 1886: 127 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona, Texas), Mexico (Sonora).
- plagosa* Coquillett, 1887b: 178 (*Anthrax*). Type-locality: U.S.A., Arizona.
- TEXANA Painter, 1933a: 8. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas, New Mexico, Kansas), Mexico (Sonora).

### Subgenus THYRIDANTHRAX Osten Sacken

- Anthrax*, group THYRIDANTHRAX Osten Sacken, 1886: 123. Type-species, *selene* Osten Sacken (Coquillett, 1910: 615). Ref. — Hall, 1970 (rev. N. American spp.).
- DURVILLEI (Macquart), 1840: 65 (1841: 343), pl. 18, fig. 8 (*Anthrax*). Type-locality: Chile, Concepción Prov. Distr. — Chile (Concepción, Antofagasta, Aconcagua, Bío Bío, Curicó, Linares, Malleco, Maule, Ñuble, Santiago, Valparaíso). Ref. — Hall, 1976a: 241.
- FENESTRATOIDES (Coquillett), 1892a: 185 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (w. states), Mexico (Sonora, San Luis Potosí).
- macula* Cole, in Cole & Lovett, 1919: 226 (*Anthrax*). Type-locality: U.S.A., Oregon. Ref. — Hall, 1970: 525.
- HYPOXANTHA (Macquart), 1840: 65 (1841: 343), pl. 21, fig. 8 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Malleco, Valparaíso, Santiago, Arauco, Linares, Curicó, Coquimbo, Atacama, Colchagua).
- blanchardi* Philippi, 1865: 665 (*Anthrax*). Type-locality: Chile, Coquimbo, Illapel. Ref. — Hall, 1976a: 242.
- MENDIONALIS Cole, 1923: 292. Type-locality: Mexico, Baja California, Cerralbo Island. Distr. — Mexico (Baja California).
- MURINA (Philippi), 1865: 666 (*Anthrax*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago).
- SELENE (Osten Sacken), 1886: 122 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (s. California, Texas, Arizona), Mexico (Sonora).
- otiosa* Coquillett, 1887b: 182 (*Anthrax*). Type-locality: U.S.A., Arizona. Ref. — Hall, 1970: 531.
- SEMITRISTIS (Philippi), 1865: 665 (*Anthrax*). Type-locality: Chile, Coquimbo, Illapel. Distr. — Chile (Aconcagua, Arauco, Atacama, Bío Bío, Coquimbo, Curicó, Linares, Malleco, Ñuble, O'Higgins, Santiago, Valparaíso).
- semitincta* Schiner, 1868: 124 (*Anthrax*). Type-locality: "Chile".
- semicinctus* Bigot, 1892: 356 (*Glossista*), lapsus. Ref. — Hall, 1976a: 244.



SINI Cole, 1923: 303. Type-locality: Mexico, Baja California, Pond Island Bay. Distr. — Mexico (Baja California).

### Subgenus VILLA Lioy

ACRIPPINA (Osten Sacken), 1887: 139, pl. 3, fig. 3 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (w. states), Mexico (Sonora).

ALBICINCTA Cole, 1923: 297. Type-locality: Mexico, Sonora, Guaymas. Distr. — Mexico (Sonora).

ALBICOLLARIS Cole, 1923: 296. Type-locality: Mexico, Baja California, San José Island. Distr. — Mexico (Baja California).

AMASIA (Wiedemann), 1828: 317 (*Anthrax*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay, Argentina.

*vicina* Macquart, 1840: 75 (1841: 353), pl. 21, fig. 1 (*Anthrax*). Type-locality: Uruguay, from the mouth of Uruguay River to the Misiones. Ref. — Painter & Painter, 1974: 172.

AMBIGUA (Lynch Arribáizaga), 1878: 268 (*Anthrax*). Type-locality: Argentina, Buenos Aires, Baradero. Distr. — Argentina (Buenos Aires).

AQUILA Hall, 1976a: 188. Type-locality: Chile, Tarapacá, 3 km e. Zapahuire. Distr. — Chile (Tarapacá).

ARCENTIFLUA (Philippi), 1865: 668 (*Anthrax*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Bío Bío, Valparaíso, Aconcagua, Curicó, Aisén). Ref. — Hall, 1976a: 189.

ARIDITATA Cole, 1923: 285. Type-locality: Mexico, Baja California, Angeles Bay. Distr. — Mexico (Baja California, Sonora).

BABBIVENTRIS (Rondani), 1868: 36 (*Anthrax*). Type-locality: Argentina, Mendoza, Portezuelo de Bonillo. Distr. — Argentina (Mendoza). Ref. — Painter & Painter, 1974: 177.

BIGOTI Hall, 1976a: 191. Type-locality: "Chile". Distr. — Chile (Coquimbo).

CALOPTERA (Philippi), 1865: 670 (*Anthrax*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Malleco, Arauco, Bío Bío, Coquimbo, Ñuble, Valparaíso, Concepción).

*quadrinicta* Philippi, 1865: 667 (*Anthrax*; preocc. Rondani, 1863). Type-locality: Chile, Santiago, Valparaíso and Valdivia.

*albissima* Oldroyd, 1938: 91. Type-locality: Chile, Santiago, Los Aguirres. Ref. — Hall, 1976a: 192.

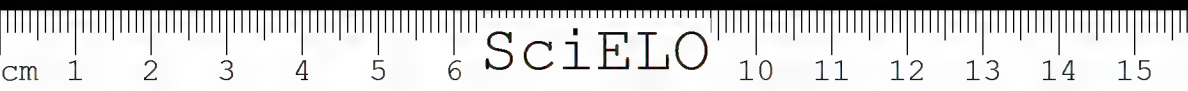
CAMPOSI Hall, 1976a: 263. Type-locality: Chile, Tarapacá, Canchones. Distr. — Chile (Tarapacá).

CURVIROSTRIS (Thomson), 1869: 483 (*Anthrax*). Type-locality: Galápagos Islands. Distr. — Galápagos Islands. Ref. — Painter & Painter, 1974: 187.

DETECTA (Walker), 1852: 181 (*Anthrax*). Type-locality: "South America". Distr. — Peru, Chile (Valparaíso, Bío Bío, Coquimbo, Santiago, Malleco, Ñuble, Maule, Aconcagua, O'Higgins).



- bipenicillatus* Bigot, 1892: 357 (*Anthrax*). Type-locality: "Chile". Ref. — Hall, 1976a: 213.
- FAUNA (Fabricius), 1805: 126 (*Anthrax*). Type-locality: "South America". Distr. — Puerto Rico (St. Croix Island), Bahamas Islands (Bimini). Ref. — Painter & Painter, 1974: 210.
- FAUSTINA (Osten Sacken), 1887: 136 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (w. states), Mexico (Sonora). Ref. — Painter & Painter, 1962: 107.
- FESTIVA (Philippi), 1865: 668 (*Anthrax*). Type-locality: Chile, Santiago, Valdivia and Colchagua. Distr. — Chile (Santiago, Colchagua, Valdivia, Curicó, Atacama, Aconcagua, Maule, Coquimbo, Malleco, Valparaíso, Aisén, Arauco, Bío Bío, Cautín, Concepción, Linares, Ñuble, O'Higgins).
- albifacies* Rondani, 1863: 63 (*Anthrax*; preocc. Macquart, 1840). Type-locality: "Chile".
- calvescens* Philippi, 1865: 673 (*Anthrax*). Type-locality: Chile, Colchagua and Aconcagua Provs. Ref. — Hall, 1976a: 194.
- FLAVICINCTA Cole, 1923: 298. Type-locality: Mexico, Sonora, Guaymas. Distr. — Mexico (Sonora).
- FLAVICRURA Hall, 1976a: 197. Type-locality: Chile, Arauco, Cordillera de Nahuelbuta. Distr. — Chile (Arauco, Aconcagua, Aisén, Bío Bío, Curicó, Colchagua, Coquimbo, Malleco, Maule, Magallanes, Santiago).
- FUCATA Hall, 1976a: 198. Type-locality: Chile, Malleco, Nahuelbuta National Park, 35 km w. Angol. Distr. — Chile (Malleco, Curicó, Ñuble).
- FULVIPEDA (Rondani), 1863: 63 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Arauco, Valdivia, Santiago, Concepción, Ñuble, Maule, Malleco, Valparaíso, Coquimbo, Curicó, Bío Bío, Linares, O'Higgins).
- vulpecula* Philippi, 1865: 668 (*Anthrax*). Type-locality: Chile, Valdivia Prov. Ref. — Hall, 1976a: 200.
- bipartita* Jaennicke, 1867: 338 (1868: 30) (*Anthrax*). Type-locality: "Chile".
- FUMICOSTA Painter, in Painter & Painter, 1962: 106. Type-locality: U.S.A., Florida. Distr. — U.S.A. (s. states), Mexico (Coahuila).
- GUTTAPENNIS Hall, 1976a: 201. Type-locality: Chile, Malleco, Nahuelbuta National Park, 35 km w. Angol. Distr. — Chile (Malleco, Aisén, Arauco, Colchagua, Santiago).
- HELARI (Macquart), 1840: 75 (1841: 353), pl. 21, fig. 1 (*Anthrax*). Type-locality: Brazil, central Goiás. Distr. — Brazil (Goiás), Argentina (Tucumán). Ref. — Painter & Painter, 1974: 229.
- HYALINIPENNIS (Blanchard), 1852: 382 (*Anthrax*). Type-locality: Chile, Coquimbo. Distr. — Chile (Valparaíso, Bío Bío, Coquimbo, Concepción, Maule, Santiago, Curicó, Aisén). Ref. — Hall, 1976a: 202.
- LATERALIS (Say), 1823: 42 (1859: 59) (*Anthrax*). Type-locality: U.S.A., Maryland. Distr. — U.S.A. (widespread), Mexico (Baja California).



Sonora, Sinaloa, Oaxaca, Nuevo León, Morelos, Guerrero, Puebla, San Luis Potosí, Durango), Panama, Puerto Rico, Bahamas Islands.

ssp. SEMIFULVIPES Painter, in Painter & Painter, 1962: 108 (nom. nov. for *fulvipes* Coquillett). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (w. states), Mexico (Sonora, Oaxaca, Sinaloa, Chiapas, Hidalgo, México, Morelos, Veracruz, Nuevo León), Panama.

*fulvipes* Coquillett, 1887b: 166 (*Anthrax*; as *alternata*, var.; preocc. Loew, 1860). Type-locality: U.S.A., Arizona.

LINEATA (Walker), 1857: 140 (*Anthrax*). Type-locality: Brazil, Amazon Valley. Ref. — Painter & Painter, 1974: 240.

LAVIA (Osten Sacken), 1887: 139 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona, Texas), Mexico (Sonora). Ref. — Painter & Painter, 1962: 114.

MINERVA (Wiedemann), 1828: 295 (*Anthrax*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay.

*costalis* Wiedemann, 1828: 299 (*Anthrax*). Type-locality: Uruguay, Montevideo. Ref. — Painter & Painter, 1974: 249.

MISCELLA (Coquillett), 1887b: 171 (*Anthrax*). Type-locality: U.S.A., Washington. Distr. — U.S.A. (w. states), Mexico (Baja California).

MOERENS (Philippi), 1865: 664 (*Anthrax*). Type-locality: Chile, "on journey to Illapel". Distr. — Chile (Santiago). Ref. — Hall, 1976a: 204.

MOLITOR (Loew), 1869: 26 (Cent. 8, n° 42) (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico (Sonora).

MONETA (Osten Sacken), 1887: 138 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona), Mexico (Sonora). Ref. — Painter & Painter, 1962: 116.

MUTUA (Walker), 1849: 256 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Coquimbo, Aisén, Atacama, Curicó). Ref. — Hall, 1976a: 205.

NIGRICOSTA (Schiner), 1868: 126 (*Anthrax*; preocc. Macquart, 1850). Type-locality: "Chile". Distr. — Chile. Ref. — Hall, 1976a: 261.

NETIDA Colé, 1923: 305. Type-locality: Mexico, Sonora, Tepoca Bay. Distr. — Mexico (Sonora).

OBLIQUA (Macquart), 1834: 410 (*Anthrax*). Type-locality: "Brazil". Distr. — Brazil.

PALLIPES (Bigot), 1892: 358 (*Anthrax*). Type-locality: "Chile". Distr. — Chile. Ref. — Hall, 1976a: 208.

PENAI Hall, 1976a: 208. Type-locality: Chile, Arauco, Peillén Pille. Distr. — Chile (Arauco, Curicó, Santiago).

PERIMELE (Wiedemann), 1828: 583 (*Anthrax*). Type-locality: "Brazil". Ref. — Painter & Painter, 1974: 258.

PROXIMA Hall, 1976a: 214. Type-locality: Chile, Santiago, El Canelo. Distr. — Chile (Santiago).

- PSAMMINA Cole, 1960: 118 (nom. nov. for *arenicola* Cole). Type-locality: Mexico, Baja California, San Nicolás Bay. Distr. — U.S.A. (Utah), Mexico (Baja California, Sonora).
- arenicola* Cole, 1923: 294 (preocc. Johnson, 1908). Type-locality: Mexico, Baja California, San Nicolás Bay.
- PUSIO (Macquart), 1840: 76 (1841: 354), pl. 21, fig. 1 (*Anthrax*). Type-locality: "Cuba". Distr. — Cuba. Ref. — Painter & Painter, 1962: 121.
- QUADRICINCTA (Rondani), 1863: 61 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Santiago, Curicó, Malleco, Ñuble, Arauco, Valdivia, Valparaíso).
- obscuripes* Bigot, 1892: 357 (*Anthrax*). Type-locality: "Chile". Ref. — Hall, 1976a: 209.
- SABINA (Osten Sacken), 1887: 137 (*Anthrax*). Type-locality: Mexico, n. Sonora. Distr. — U.S.A. (Arizona), Mexico (Sonora). Ref. — Painter & Painter, 1962: 121.
- SEJUNCENDA (Rondani), 1863: 62 (*Anthrax*). Type-locality: "South America". Ref. — Painter & Painter, 1974: 274.
- SONORENSIS Cole, 1923: 296. Type-locality: Mexico, Sonora, Guaymas. Distr. — Mexico (Sonora).
- SQUAMIGERA (Coquillett), 1892a: 181 (*Anthrax*). Type-locality: U.S.A., California. Distr. — U.S.A. (California, Arizona), Mexico (Baja California, Sonora).
- TRANSLATA (Walker), 1852: 182 (*Anthrax*). Type-locality: "West Indies". Ref. — Painter & Painter, 1962: 124.
- TRIFIDA Hall, 1976a: 211. Type-locality: Chile, Magallanes, 4 km w. Laguna Amarga. Distr. — Chile (Magallanes).
- VALPARAISENSIS Hall, 1976a: 263. Type-locality: Chile, Valparaíso, Quebrada Verde. Distr. — Chile (Valparaíso).
- VASTITITAS Cole, 1923: 295. Type-locality: Mexico, Baja California, Cerralbo Island. Distr. — Mexico (Baja California).
- VERDENSIS Oldroyd, 1938: 90. Type-locality: Chile, L. Verde. Distr. — Chile. Ref. — Hall, 1976a: 211.
- VITRIPENNIS (Philippi), 1865: 671 (*Anthrax*; preocc. Loew, 1860). Type-locality: Chile, Illapel. Distr. — Chile (Santiago). Ref. — Hall, 1976a: 262.

#### Subgenus EXHYALANTHRAX Becker

- Villa, subg. EXHYALANTHRAX Becker, 1916: 28. Type-species, *Anthrax vagans* Loew (Bezzi, 1924: 7).
- CORRIGIOLATA (Rondani), 1863: 62 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Bio Bio, Valparaíso, Aconcagua, Colchagua, Santiago).
- balteata* Philippi, 1865: 673 (*Anthrax*). Type-locality: Chile, Aconcagua and Santiago Provs. Ref. — Hall, 1976a: 221.

INGLORIA (Philippi), 1865: 674 (*Anthrax*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Tarapacá).

*pusio* Philippi, 1865: 674 (*Anthrax*; preocc. Macquart, 1840). Type-locality: Chile, Santiago. Ref. — Hall, 1976a: 224.

LEUCOMALLA (Philippi), 1865: 672 (*Anthrax*). Type-locality: "Chile". Distr. — Chile (Valparaiso, Coquimbo). Ref. — Hall, 1976a: 225.

NIGROCRURA Hall, 1976a: 226. Type-locality: Chile, Santiago, Quebrada de la Plata. Distr. — Chile (Santiago, Valparaiso).

PRAETERITA Oldroyd, 1938: 88. Type-locality: Chile, Valparaiso, Las Mercedes. Distr. — Chile (Valparaiso, Coquimbo, Santiago). Ref. — Hall, 1976a: 228.

UNA Oldroyd, 1938: 88. Type-locality: Chile, Valparaiso, Marga Marga. Distr. — Chile (Valparaiso). Ref. — Hall, 1976a: 228.

#### Unplaced species of VILLA

BISTELLA (Walker), 1850: 97 (*Anthrax*). Type-locality: Brazil, Pará.

CREPUSCULARIS (Lynch Arribáizaga), 1878: 271 (*Anthrax*). Type-locality: Argentina, Buenos Aires, Baradero and Chascomús.

DIMINUTIVA (Macquart), 1846: 241 (1846: 113) (*Anthrax*). Type-locality: "Colombia". Ref. — Painter & Painter, 1974: 198.

GRADATA (Macquart), 1847: 69 (1847: 53) (*Anthrax*). Type-locality: "Colombia". Ref. — Painter & Painter, 1974: 227.

IOPTERA (Wiedemann), 1828: 565 (*Anthrax*). Type-locality: "Brazil". Ref. — Painter & Painter, 1974: 235.

LATIFIMBRIA (Walker), 1852: 175 (*Anthrax*). Type-locality: "Colombia".

MINIATA Oldroyd, 1938: 89. Type-locality: Argentina, La Rioja, Patquia.

NIGRITA (Wiedemann), 1828: 320 (*Anthrax*). Type-locality: "Erazil".

PENINSULARIS Cole, 1923: 304. Type-locality: Mexico, Baja California, Angeles Bay.

PUDICA (Lynch Arribáizaga), 1878: 275 (*Anthrax*). Type-locality: Argentina, Buenos Aires, Baradero and Las Conchas.

*melaleuca* Wiedemann of Lynch Arribáizaga, 1878: 269, misident.

SOLITA (Walker), 1857: 140 (*Anthrax*). Type-locality: Brazil, Amazon Valley.

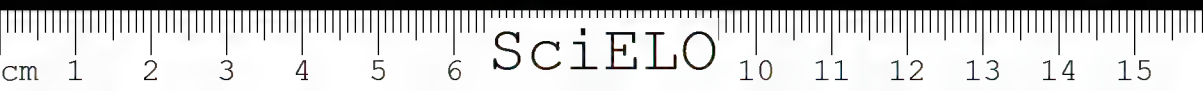
SUBAEQUALIS (Lynch Arribáizaga), 1878: 267 (*Anthrax*). Type-locality: Argentina, Buenos Aires, Baradero.

VANDUZEEI Cole, 1923: 306. Type-locality: Mexico, Sonora, San Pedro Bay.

VICINA (Macquart), 1846: 240 (1846: 112) (*Anthrax*; preocc. Macquart, 1840). Type-locality: "Colombia".

#### Genus CYANANTHRAX Painter

CYANANTHRAX Painter, 1959: 73. Type-species, *Anthrax cyanoptera* Wiedemann (orig. des.).





CYANOPTERA (Wiedemann), 1830: 638 (*Anthrax*). Type-locality: "Mexico".  
Distr. — Mexico (Guerrero, Jalisco, Morelos, Michoacán, Puebla,  
Oaxaca, México). Ref. — Painter, 1959: 73.

#### Genus DEUSOPORA Hull

DEUSOPORA Hull, 1971a: 1. Type-species, *sapphirina* Hull (orig. des.).

SAPPHIRINA Hull, 1971a: 1. Type-locality: Brazil, Santa Catarina, Nova  
Teutônia.

#### Genus HYPERALONIA Rondani

HYPERALONIA Rondani, 1863: 58. Type-species, *Anthrax erythrocephala* Fa-  
bricius (Coquillett, 1910: 554). Ref. — Painter & Painter, 1968b.

ATRA Painter, in Painter & Painter, 1968b: 110. Type-locality: Argentina,  
Salta, San Carlos. Distr. — Argentina (Salta).

CHILENSIS Rondani, 1863: 59. Type-locality: "Chile". Distr. — Chile (Acon-  
cagua, Arauco, Cautín, Coquimbo, Concepción, Curicó, Malleco,  
Maule, Ñuble, Santiago, Valparaíso). Ref. — Painter & Painter,  
1968b: 110.

MORIO (Fabricius), 1775: 797 (*Stomoxys*). Type-locality: "Brazil". Distr.  
— Southern South America, overlapping with *erythrocephala* in  
the Amazon Valley — Brazil (Amazonas south to Rio Grande do  
Sul), Bolivia, Paraguay, Uruguay, Argentina (south to Río Negro),  
Chile (Coquimbo). Ref. — Painter & Painter, 1968b: 112.

ssp. ERYTHROCEPHALA (Fabricius), 1805: 118 (*Anthrax*). Type-locality:  
"South America". Distr. — Northern South America, overlapping  
with *morio* in most areas of Brazil — Venezuela, Guyana, Surinam,  
French Guiana, Brazil (Pará, Maranhão, Rio Grande do Norte,  
Ceará, Bahia, Mato Grosso, Rio de Janeiro, São Paulo).

*flaviceps* Guérin-Méneville, 1844: 539 (*Anthrax*). Type-locality: "South  
America". Ref. — Painter & Painter, 1968b: 116.

*coeruleiventris* Macquart, 1846: 237 (1846: 109), pl. 9, fig. 9 (*Exoprosopa*).  
Type-locality: "Erazil".

SURINAMENSIS Rondani, 1863: 58. Type-locality: "Surinam". Distr. —  
Surinam, Guyana, Colombia, Ecuador, Peru, Brazil (Amazonas,  
Pará, Mato Grosso, Bahia, São Paulo). Ref. — Painter & Painter,  
1968b: 117.

#### Genus OESTRIMYZA Hull

OESTRIMYZA Hull, 1973: 411. Type-species, *fenestrata* Hull (orig. des.).

FENESTRATA Hull, 1973: 411. Type-locality: "Brazil". Distr. — Brazil.

#### UNPLACED BOMBYLIIDAE

HYALINUS Fabricius, 1805: 134 (*Bombylius*). Type-locality: "South America".  
Ref. — Painter & Pinter, 1974: 44 (descr. of type, as *Sparnopolius*).  
Probably represents a new genus.

- HYALIPENNIS Macquart, 1846: 245 (1846: 117) (*Bombylius*). Type-locality: "Colombia".
- PLUMIPES Drury, 1773: 74, pl. 39, fig. 3 (*Bombylius*). Type-locality: "Jamaica".

#### LITERATURE CITED

ANDERSSON, H.

1974. Studies on the myrmecophilous fly, *Glabellula arctica* (Zett.) (Dip. Bombyliidae). *Ent. Scand.* 5: 29-38.

D'ANDRETTA, M. A. V. & M. CARRERA

1950. Sobre as espécies brasileiras de Toxophorinae (Diptera, Bombyliidae). *Dusenla* 1 (6): 351-374.
1952. Resultados de uma expedição científica ao Território do Acre. — Diptera. *Papéis Avulsos Zool.*, S. Paulo, 10 (17): 293-306.

BANKS, N.

1909. A new species of *Systropus* (Bombyliidae). *Ent. News* 20: 18.

EECKER, T.

1913. Genera Bombyliidarum. [Akad. Nauk SSSR] Imp. Akad. Nauk St. Petersburg, *Zool. Muz. Ezheg.* 17: 421-502, 36 figs.
1916. Beiträge zur Kenntnis einiger Gattungen der Bombyliiden. *Ann. Mus. Nat. Hung.* 14: 17-67, 2 figs.

BERTHOLD, A. A.

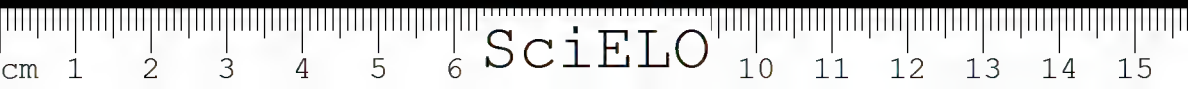
1827. *Latreille's Natürliche Familien der Thierreichs. Aus dem Französischen. Mit Anmerkungen und Zusätzen*, 606 pp. Weimar.

BEZZI, M.

1902. Neue Namen für einige Dipteren-Gattungen. *Ztschr. f. System. Hymenopt. u. Dipt.* 2: 190-192.
1908. Nomenklatorisches über Dipteren. III. *Wien. Ent. Ztg.* 27: 74-84.
1924. *The Bombyliidae of the Ethiopian Region*, 390 pp., 46 figs. British Museum (Natural History), London.

BIGOT, J. M. F.

- 1857a. Dipteros, pp. 328-349, [pl. 20 of insects and crustaceans, bound in vol. 8], in R. de la Sagra, *Historia física, política y natural de la Isla de Cuba* 7: 371 pp. Paris, "1856".
- 1857b. Diptères nouveaux provenants du Chili. *Ann. Soc. Ent. France* (3) 5: 277-308.
1858. Essai d'une classification générale et synoptique de l'ordre des insectes diptères. VIe. *Ann. Soc. Ent. France* (3) 6: 569-595.
1875. (Description d'une nouvelle espèce de diptère). *Ann. Soc. Ent. France* (5) 5 (Bull.): clxxiv-clxxvi.



1876. (Diagnose d'un nouveau genre de diptères: *Paranthrax*). *Ann. Soc. Ent. France* (5) 6 (Bull.): lxvi.
1886. (Diagnoses nouvelles d'un genre et d'une espèce de l'ordre des diptères). *Ann. Soc. Ent. France* (6) 6 (Bull.): ciii-civ.
1892. Diptères nouveaux ou peu connus. 37e. partie, XLVI: Bombyliidi (mihi). *Ann. Soc. Ent. France* 61: 321-376.

ELANCHARD, E.

1852. Orden IX. Dipteros, pp. 327-468, in C. Gay, ed., *Historia fisica y politica de Chile, Zoologia* 7: 471 pp. Paris.

BOWDEN, J.

1975. Studies in African Bombyliidae. X. Taxonomic problems relevant to a Catalogue of Ethiopian Bombyliidae, with descriptions of new genera and species. *Jour. Ent. Soc. S. Africa* 38 (2): 305-320.

ERÉTHES, J.

1909. Dipteros e himenopteros de Mendoza. *An. Mus. Nac. Buenos Aires* 19: 85-105.
1920. Cueillette d'insectes du Rio Blanco. *Rev. Chil. Hist. Nat.* 23: 40-44.
1925. Sur quelques diptères chiliens. *Rev. Chil. Hist. Nat.* 28 (1924): 104-111.

CARRERA, M. & M. A. V. D'ANDRETTA

1950. Sobre as espécies brasileiras de *Systropus* Wiedemann, 1830 (Diptera, Bombyliidae). *Papéis Avulsos Zool.*, S. Paulo 11 (20): 295-319.

COCKERELL, T. D. A.

1917. New Tertiary insects. *Proc. U. S. Natl. Museum* 52: 373-384.

COLE, F. R.

1917. Notes on Osten Sacken's group "*Poecilanthrax*", with descriptions of new species. *Jour. N. Y. Ent. Soc.* 25: 67-80.
1923. Expedition of the California Academy of Sciences to the Gulf of California in 1921. The Bombyliidae (Bee Flies). *Proc. Calif. Acad. Sci.* (4) 12 (13): 289-314.
1957. New bombyliid flies from Chiapas, Mexico (Diptera). *Pan-Pacific Ent.* 33: 200-202.
1960. New names in Therevidae and Bombyliidae (Diptera). *Pan-Pacific Ent.* 56: 118.

COLE, F. R. & A. L. LOVETT

1919. New Oregon Diptera. *Proc. Calif. Acad. Sci.* (4) 9: 221-255.

COQUILLETT, D. W.

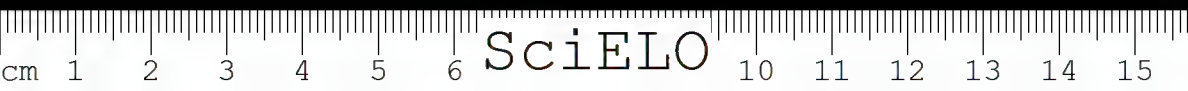
- 1886a. Monograph of the Lomatina of North America. *Canad. Ent.* 18: 81-87.
- 1886b. The North American genera of Anthracina. *Canad. Ent.* 18: 157-159.
- 1886c. The North American species of *Toxophora*. *Ent. Amer.* 1: 221-222.
- 1887a. Synopsis of the North American species of *Lordotus*. *Ent. Amer.* 3: 115-116.
- 1887b. Monograph of the genus *Anthrax* north of Mexico. *Trans. Amer. Ent. Soc. and Proc. Acad. Nat. Sci. Phila., Ent. Sect.* 14: 159-182.
- 1887c. Notes on the genus *Exoprosopa*. *Canad. Ent.* 19: 12-14.
- 1891a. New Bombyliidae from California. *West Amer. Sci.* 7 (63): 197-200.
- 1891b. New Bombyliidae of the group *Paracosmus*. *West Amer. Sci.* 7 (62): 219-222.
- 1891c. Revision of the bombylid genus *Aphoebantus*, pp. 6-16. First published, Mar., 1891, as a preprint from *West Amer. Sci.* [Also published in *West Amer. Sci.* 7: 254-264, Oct., 1891].
- 1892a. Revision of the species of *Anthrax* from America, north of Mexico. *Trans. Amer. Ent. Soc.* 19: 168-187.
- 1892b. Revision of the bombylid genus *Epacmus* (*Leptochilus*). *Canad. Ent.* 24: 9-11.
1893. An anomalous empid. *Ent. News and Proc. Acad. Nat. Sci. Phila., Ent. Sect.* 4: 208-210.
1894. Notes and descriptions of North American Bombyliidae. *Trans. Amer. Ent. Soc.* 21: 89-112.
1903. New Diptera from North America. *Proc. U. S. Natl. Mus.* 25 (= n° 1280): 83-126.
- 1904a. New North American Diptera. *Proc. Ent. Soc. Wash.* 6: 166-192.
- 1904b. Diptera from southern Texas with descriptions of new species. *Jour. N. Y. Ent. Soc.* 12: 31-35.
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Natl. Mus.* 37: 499-647.

COSTA, A.

1865. Descrizione di taluni insetti stranieri all'Europa. *Annuar. Mus. Zool. Napoli* 2 (1864): 139-153.

CRESSON, E. T., JR.

- 1915a. A new genus and some new species belonging to the dipterous family Bombyliidae. *Ent. News* 26: 200-207.





- 1915b. Some North American Diptera from the Southwest. Paper III. A revision of the species of the genus *Mythicomyia*. *Ent. News* 26: 448-456.
1919. Dipterological notes and descriptions. *Proc. Acad. Nat. Sci. Phila.* 71: 171-194.
1923. Records of some western Diptera, with descriptions of two new species of the family Bombyliidae. *Proc. Acad. Nat. Sci. Phila.* 75: 365-367.

CURRAN, C. H.

1928. Insects of Porto Rico and the Virgin Islands. Diptera or two-winged flies. Pt. 1, pp. 1-118, 39 figs., in New York Academy of Sciences, *Scientific survey of Puerto Rico and the Virgin Islands*, vol. 11. New York.
1929. New Diptera in the American Museum of Natural History. *Amer. Mus. Novitates* 339: 1-13.
- 1930a. New species of *Lepidanthrax* and *Parabombylius* (Bombyliidae, Diptera). *Amer. Mus. Novitates* 404: 1-7.
- 1930b. New Diptera from North and Central America. *Amer. Mus. Novitates* 415: 1-16.
1931. First supplement to the Diptera of Porto Rico and the Virgin Islands. *Amer. Mus. Novitates* 456: 1-23.
- 1934a. *The families and genera of North American Diptera*, 512 pp. New York.
- 1934b. The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Amer. Mus. Nat. Hist.* 66: 287-532.
1942. American Diptera. *Bull. Amer. Mus. Nat. Hist.* 80: 51-84.

DRURY, D.

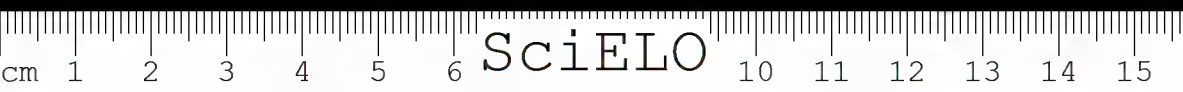
1773. *Illustrations of natural history. Wherein are exhibited upwards of 240 figures of exotic insects, according to their different genera* 2: 90 pp., 50 pls. and index to vols. 1-2 (4 unnumbered pages). London.

EDWARDS, F. W.

1930. Bombyliidae, Nemestrinidae, Cyrtidae, in British Museum (Natural History), *Diptera of Patagonia and South Chile* 5 (2): 162-197. London.
1934. On the genus *Comptosia* and its allies (Bombyliidae). *Enc. Ent.*, Paris (B) 2 (Dipt., 7): 81-112.
1937. Bombyliidae from Chile and western Argentina. *Rev. Chil. Hist. Nat.* 40 (1936): 31-41.

ERICHSON, W. F.

1848. Die Insecten, in R. H. Schomburgk, *Reisen in Britisch-Guiana ... in 1840-1844*, vol. 3: 553-617.



FAERICIUS, J. C.

1775. *Systema entomologiae, sistens insectorum classes, ordines, genera, species adiectis synonymis, locis, descriptionibus, observationibus*, 832 pp. Flensburgi et Lipsiae.
1787. *Mantissa insectorum sistens species nuper detectas* 2: 382 pp. Hafniae.
1794. *Entomologia systematica emendata et aucta* 4: 472 pp. Hafniae.
1805. *Systema antliatorum, secundum ordines, genera, species*, 373 + 30 pp. Brunsvigae.

GUÉRIN-MÉNEVILLE, F. E.

1844. Douzième ordre. Les Diptères, pp. 531-559 (= livr. 50), in his *Iconographie du règne animal de G. Cuvier*. Vol. 3: Texte explicatif, Insectes, 576 pp. (= livrs. 45-50). Paris.

GREENE, C. T.

1921. A new genus of Bombyliidae (Diptera). *Proc. Ent. Soc. Wash.* 23 (1): 23-24.
1924. New species of *Mythicomylia* and its relationship, with a new genus (Diptera). *Proc. Ent. Soc. Wash.* 26: 60-64.

HALL, J. C.

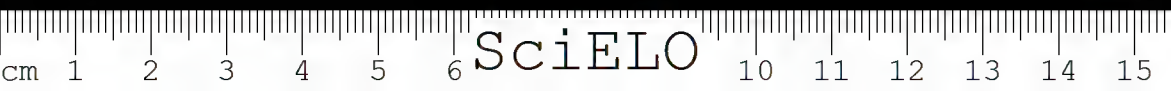
1954. A revision of the genus *Lordotus* Loew in North America (Diptera, Bombyliidae). *Calif. Univ. Publ. Ent.* 10: 1-33.
1969. A review of the subfamily Cylleninae with a world revision of the genus *Thevenemyia* Bigot (*Eclimys* auctt.) (Diptera, Bombyliidae). *Univ. Calif. Publ. Ent.* 56: 1-85.
1970. The North American species of *Villa* (*Thyridanthrax*) (Osten Sacken) (Diptera, Bombyliidae). *Trans. Amer. Ent. Soc.* 96: 519-542.
1973. New Argentine *Lyophaeaba* (Diptera, Bombyliidae). *Ent. News* 84 (5): 149-155.
- 1976a. The Bombyliidae of Chile. *Univ. Calif. Publ. Ent.* 76: 1-278.
- 1976b. A revision of the North and Central American species of *Lepidanthrax* Osten Sacken (Diptera, Bombyliidae). *Trans. Amer. Ent. Soc.* 102: 289-371.

HENNIG, W.

1972. Eine neue Art der Rhagionidengattung *Litoleptis* aus Chile, mit Bemerkungen über Fühlerbildung und Verwandtschaftsbeziehungen einiger Brachycerenfamilien (Diptera: Brachycera). *Stuttgart. Beitr. Naturkunde* 242: 1-18.

HULL, F. M.

1965. Notes and descriptions of Bombyliidae (Diptera). *Ent. News* 76 (4): 95-97.



1966. Notes on the genus *Neodiplocampta* Curran and certain other Bombyliidae. Part 1. *Ent. News* 77 (8): 225-227.
1970. Some new genera and species of beeﬂies from South America (Diptera, Bombyliidae). *Jour. Georgia Ent. Soc.* 5 (3): 163-166.
- 1971a. Some new genera and species of beeﬂies (Diptera, Bombyliidae) from South America and Australia. *Jour. Georgia Ent. Soc.* 6 (1): 1-7.
- 1971b. A new genus and species of beeﬂies (Diptera, Bombyliidae). *Proc. Ent. Soc. Wash.* 73 (2): 181-183.
1973. The beeﬂies of the world. The genera of the family Bombyliidae. *Bull. U. S. Natl. Mus.* 286: 3-687.

HULL, F. M. & W. C. MARTIN

1974. The genus *Neodiplocampta* Curran and related beeﬂies (Diptera, Bombyliidae). *Proc. Ent. Soc. Wash.* 76 (3): 322-346.

JAENNICKE, F.

1867. Neue exotische Dipteren. *Abhandl. Senckenb. Naturf. Ges.* 6: 311-403. [Also published separately, as "Neue exotische Dipteren aus Museen zu Frankfurt a. M. und Darmstadt", 100 pp., Frankfurt, 1868].

JOHNSON, C. W.

1903. Descriptions of three new Diptera of the genus *Phthiria*. *Psyche* 10: 184-185.
1913. Insects of Florida. I. Diptera. *Bull. Amer. Mus. Nat. Hist.* 32: 37-90.

JOHNSON, D. E. & L. M. JOHNSON

1957. New *Poecilanthrax*, with notes on described species (Diptera: Bombyliidae). *Great Basin Nat.* 17: 1-26.
- 1959a. New and insufficiently known *Exoprosopa* from the Far West (Diptera: Bombyliidae). *Great Basin Nat.* (1958) 18: 69-84.
- 1959b. Notes on the genus *Lordotus* Loew, with descriptions of new species (Diptera: Bombyliidae). *Great Basin Nat.* 19: 9-26.

KARSCH, F.

1880. Die Spaltung der Dipterngattung (sic) *Systropus* Wiedemann. *Zeitschr. ges. Naturw.* 53: 654-658.

KNAB, F.

1913. A new *Heterostylum* from Mexico. *Insect. Inscit. Menstr.* 1 (9): 110-111.
1915. Some West Indian Diptera. *Insect. Inscit. Menstr.* 3: 46-50.

KÜNCKEL D'HERCULAI, J.

1905. Les lépidoptères limacodides et leurs diptères parasites, bombylides du genre *Systropus*. Adaptation parallèle de l'hôte et du parasite aux mêmes conditions d'existence. *Bull. Scient. France Belgique* 39 (= sér. 6, vol. 8): 141-151, pls. 3-4.

LATREILLE, P. A.

1796. *Précis des caractères génériques des insectes, disposés dans un ordre naturel*, 179 pp. Paris.
1802. *Histoire naturelle, générale et particulière, des crustacés et des insectes* 3: 468 pp., in C. S. Sonnini, ed., *Histoire naturelle par Buffon*, vol. 95. Paris, "An X".
1804. Tableau méthodique des insectes, pp. 129-200, in Société de naturalistes et d'agriculteurs, *Nouveau Dictionnaire d'histoire naturelle, appliqué aux arts, principalement à l'agriculture et à l'économie rurale et domestique* 24 (sect. 3): Tableaux méthodiques d'histoire naturelle, 238 pp., 5 pls. Paris.
1805. *Histoire naturelle, générale et particulière, des crustacés et des insectes* 14: 432 pp., pls. 104-112, in C. S. Sonnini, ed., *Histoire naturelle par Buffon*, vol. 106. Paris, "An XIII".
1810. *Considérations générales sur l'ordre naturel des animaux*, 444 pp. Paris.

LENKO, K.

1970. *Vespa-oleira, Pachodynerus nasidens* (Hymenoptera: Vespidae) e um seu parasita, a môsca *Eniconeura lepidocera* (Diptera: Bombyliidae). *Arq. Inst. Biol.*, S. Paulo 37 (4): 233-238.

LINNAEUS, C.

1758. *Systema naturae per regna tria naturae* (Ed. 10), 1: 824 pp. Holmiae.

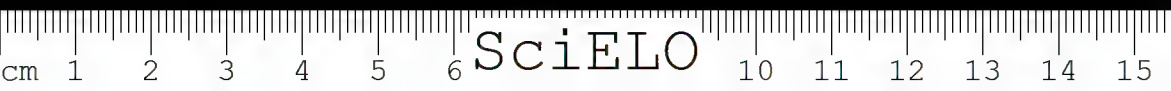
LIOY, P.

1864. I ditteri distribuiti secondo un nuovo metodo di classificazione naturale. *Atti I. R. Ist. Veneto Sci., Let. ed Arti* (3) 9: 499-518, 569-604, 719-771, 879-910, 989-1027, 1087-1126, 1311-1352; 10: 59-84.

LOEW, H.

1844. Beschreibung einiger neuen Gattungen der europäischen Dipterenfauna. *Stettin. ent. Ztg.* 5: 114-130, 154-173, 2 pls.
1846. Fragmente zur Kenntniss der europäischen Arten einiger Dipteren-gattungen. *Linnaea Ent.* 1: 319-530, pl. 3.
1855. Neue Beiträge zur Kenntniss der Dipteren. Dritter Beitrag. *Programm K. Realschule zu Meseritz* 1855: 1-52. [Also issued separately, with the same pagination, under the imprint Berlin, 1855].
1860. Bidrag till kännedomen om Afrikas Diptera [cont.]. *Öfversigt af K. Svenska Vetensk. Akad. Förhandl.* (1861) 17: 81-97. [Also:

38.65





Die Dipteren-Fauna Südafrika's. Erste Abtheilung. *Abhandl. Naturw. Ver. Sachsen Thüringen* (1858-1861) 2: 57-402, 2 pls., 1860; also separately published, xi + 330 pp., 2 pls., Berlin, 1860].

1861. *Diptera aliquot in insula Cuba collecta*. *Wien. ent. Monatschr.* 5: 33-43.
1863. *Diptera Americae septentrionalis indigena*. Centuria quarta. *Berlin. ent. Ztschr.* 7: 275-326. [Also published in Loew, 1864: 159-210].
1864. *Diptera Americae septentrionalis indigena 1* [Centuriae 1-5]: 266 pp., Berlin, "1861".
1869. *Diptera Americae septentrionalis indigena*. Centuria octava. *Berlin. ent. Ztschr.* 13: 1-52. [Also published in Loew, 1872a: 115-166].
1872. *Diptera Americae septentrionalis indigena*. Centuria decima. *Berlin. ent. Ztschr.* 16: 49-115. [Also published in Loew, 1872a: 225-291].
- 1872a. *Diptera Americae septentrionalis indigena 2* [Centuriae 6-10]: 300 pp. Berlin.
1873. *Beschreibung europäischer Dipteren. Systematische Beschreibung der bekannten europäischen zweiflügeligen Insecten*, von Johann Wilhelm Meigen, 3 (Zehnter Theil oder vierter Supplementband): 320 pp. Halle.

LYNCH ARRIÁZAGA, F.

1878. Notas dipterológicas sobre los antrácidos y bombiliarios del Partido del Baradero (Provincia de Buenos Aires). Parte primera. Antrácidos. *El Naturalista Argentino* 1 (8): 225-231, (9): 263-275.

MACQUART, J.

1834. *Histoire naturelle des Insectes. — Diptères. Tome premier. Diptera 1*: 578 pp., in [N. E. Roret, ed.], *Collection des Suites à Buffon*. Paris.
1840. *Diptères exotiques nouveaux ou peu connus 2* (1): 5-135, 21 pls. Paris. [Also published in *Mém. Soc. Roy. Sci., de l'Agr. et des Arts, Lille 1840*: 283-413, 21 pls., 1841].
1846. *Diptères exotiques nouveaux ou peu connus*. [Ier] Supplément. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts, Lille* (1845) 1844: 133-364, 20 pls. [Also separately published as "Supplément [I]", pp. 5-238, 20 pls., Paris, 1846].
1847. *Diptères exotiques nouveaux ou peu connus. 2e. Supplément. Mém. Soc. Roy. des Sci., de l'Agr. et des Arts, Lille 1846*: 21-120, 6 pls. [Also separately published, pp. 5-104, 6 pls., Paris, ?1847].
1848. *Diptères exotiques nouveaux ou peu connus. Suite du 2e. supplément [i. e., 3e. supplément]. Mém. Soc. Roy. des Sci., de*

*l'Agr. et des Arts, Lille 1847* (2): 161-237, 7 pls. [Also separately published, Supplément III, pp. 1-77, 7 pls., Paris, 1848].

1850. Diptères exotiques nouveaux ou peu connus. 4e. supplément. *Mém. Soc. des Sci., de l'Agr. et des Arts, Lille 1849*: 309-465 (text), 466-479 (expl. of figs., index), pls. 1-14. [Also separately published, Supplément IV [part], pp. 5-161 (text), Paris, ?1850].
1855. Diptères exotiques nouveaux ou peu connus. 5e. supplément. *Mém. Soc. Imp. des Sci., de l'Agr. et des Arts, Lille 1854*: 25-156, 7 pls. [Also separately published, Supplément V, pp. 5-136, 7 pls., Paris, 1855].

MARSTON, N.

1961. Additional notes on the two known species of the genus *Neodiskistus* Painter. *Bol. Univ. Paraná, Zool.* 7: 1-11.
1963. A revision of the nearctic species of the *albofasciatus* group of the genus *Anthrax* Scopoli (Diptera, Bombyliidae). *Tech. Bull. Kansas State Univ.* 127: 1-79.
1970. Revision of the New World species of *Anthrax* (Diptera, Bombyliidae), other than the *Anthrax albofasciatus* group. *Smithson. Contr. Zool.* 43: 1-148.
1971. Taxonomic study of the known pupae of the genus *Anthrax* (Diptera, Bombyliidae) in North and South America. *Smithson. Contr. Zool.* 100: 1-18.

MEIGEN, J. W.

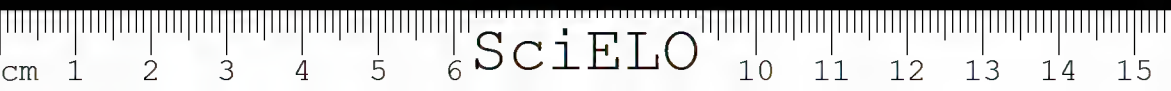
1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Mag. f. Insektenkunde* 2: 259-281.
1804. *Klassifikation und Beschreibung der europäischen zweiflügeligen Insekten* (Diptera Linn.). *Erster Band, Abt. I*: xxviii + 152 pp., 8 pls.; *Abt. II*: pp. i + vi + 153-314, pls. 9-15. Braunschweig.
1820. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten* 2: x + 365 pp., pls. 12-21. Aachen.

MELANDER, A. L.

1946. *Apolysis, Oligodranes* and *Empidideicus* in America (Diptera, Bombyliidae). *Ann. Ent. Soc. Amer.* 39: 451-495, 1 pl.
- 1950a. *Aphobantus* and its relatives *Epacmus* and *Eucessia* (Diptera: Bombyliidae). *Ann. Ent. Soc. Amer.* 43: 1-45, 2 pls.
- 1950b. Taxonomic notes on some smaller Bombyliidae (Diptera). *Pan-Pacific Ent.* 26: 139-144, 145-156.
1961. The genus *Mythicomylia* (Diptera: Bombyliidae). *Wasmann Jour. Biol.* (1960) 18: 161-261.

MERLE, P. DU

1975. *Les hôtes et les stades pré-imaginaux des diptères Bombyliidae*; *Revue bibliographique annotée*. Union Int. Sci., Bull. SROP, WPRS Bull., 289 pp.



NEWMAN, E.

1841. Entomological notes [cont.]. *Entomologist* (Newman's) (1840-1842) [1]: 220-223.

OLDROYD, H.

1938. Bombyliidae from Chile and western Argentina. *Rev. Chil. Hist. Nat.* (1937) 41: 83-93.

OLIVIER, G. A.

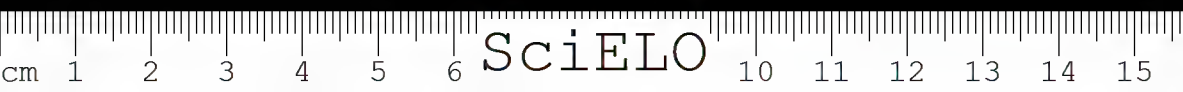
1789. *Encyclopédie méthodique. Dictionnaire des insectes* 4: 329 pp. Paris.

OSTEN SACKEN, C. R.

1877. Western Diptera: Descriptions of new genera and species of Diptera from the region west of the Mississippi and especially from California. [U. S. Dept. Int.] *Bull. U. S. Geol. Geogr. Surv. Terr.* 3: 189-354.
1886. Diptera, Vol. I (part), pp. 1-24, 25-48, 49-72, 73-104, 105-128, pls. 1-2 (cont.), in F. D. Godman & O. Salvin, eds., *Biologia Centrali-Americana, Zoologia-Insecta-Diptera* 1: 378 pp., 6 pls., London.
1887. Diptera, Vol. I (part, concl.), pp. 129-160, 161-176, 177-208, 209-216, pl. 3, in F. D. Godman & O. Salvin, eds., *Biologia Centrali-Americana, Zoologia-Insecta-Diptera* 1: 378 pp., 6 pls. London.

PAINTER, R. H.

1926. Notes on the genus *Parabombylius* (Diptera). *Ent. News* 37: 73-78.
- 1930a. A review of the bombyliid genus *Heterostylum* (Diptera). *Jour. Kansas Ent. Soc.* 3: 1-7.
- 1930b. Notes on some Bombyliidae (Diptera) from the Republic of Honduras. *Ann. Ent. Soc. Amer.* 23: 793-807, 1 pl.
1932. A monographic study of the genus *Geron* Meigen as it occurs in the United States (Diptera: Bombyliidae). *Trans. Amer. Ent. Soc.* 58: 139-167, pls. 10-11.
- 1933a. New subgenera and species of Bombyliidae (Diptera). *Jour. Kansas Ent. Soc.* 6: 5-18.
- 1933b. Notes on some Bombyliidae from Panama. *Amer. Mus. Novitates* 642: 1-10.
1939. Two new species of South American Bombyliidae. *Arb. ü. morph. taxon. Ent.*, Berlin-Dahlem 6: 42-45.
1940. Notes on type-specimens and descriptions of new North American Bombyliidae. *Trans. Kansas Acad. Sci.* (1939) 42: 267-301, 2 pls.
1959. A new genus of Bombyliidae. *Jour. Kansas Ent. Soc.* 32 (2): 73-75.



FAINTER, R. H. & J. C. HALL

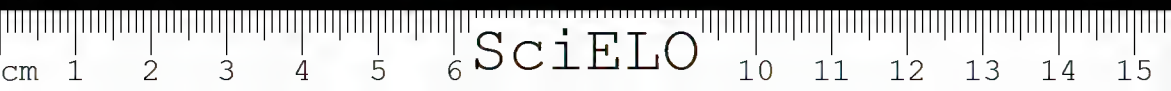
1960. A monograph of the genus *Poecilanthrax* (Diptera: Bombyliidae). *Tech. Bull. Kansas Agr. Expt. Sta.* 106: 1-132, 31 maps, 34 photos, 8 pls.

PAINTER, R. H. & E. M. PAINTER

1962. Notes on and redescrptions of types of North American Bombyliidae (Diptera) in European museums. *Jour. Kansas Ent. Soc.* 35: 2-164, 20 figs.
1963. A review of the subfamily Systropinae (Diptera: Bombyliidae) in North America. *Jour. Kansas Ent. Soc.* 36: 278-348.
1965. Family Bombyliidae, pp. 407-446, in A. Stone, et al., A catalog of the Diptera of America north of Mexico. U. S. Dept. Agric., *Agric. Handb.* 276: 1-1696.
- 1968a. Review of the genus *Desmatomyia* Williston (Diptera: Bombyliidae). *Jour. Kansas Ent. Soc.* 41: 408-412.
- 1968b. A review of the genus *Hyperalonia* Rondani (Bombyliidae, Diptera) from South America. *Papéis Avulsos Zool.*, S. Paulo 22 (12): 107-121.
1969. New Exoprosopinae from Mexico and Central America (Diptera: Bombyliidae). *Jour. Kansas Ent. Soc.* 42: 5-34.
1974. Notes on, and redescrptions of, types of South American Bombyliidae (Diptera) in European and United States Museums. *Res. Publ. Kansas State Univ. Expt. Sta.* 168: 1-322.

PARAMONOV, S. J.

1930. Beiträge zur Monographie der Gattungen *Cytherea*, *Anastoechus* etc. Bombyliidae (Diptera). [Akad. Nauk SSSR] *Trudy Vseukrains'ka Akad. Nauk, Fiz.-Mat. Vidd.* (Mém. Acad. Sci. Ukraine, Cl. Sci. Phys. Math.) 15: 355-481. [= Z'irnik Zool. Muz. (Trav. Mus. Zool.), 9].
- 1931a. Beiträge zur Monographie der Bombyliiden-Gattungen *Amictus*, *Lyophlaeba*, etc. (Diptera). [Akad. Nauk SSSR] *Trudy Vseukrains'ka Akad. Nauk, Fiz.-Mat. Vidd.* (Mém. Acad. Sci. Ukraine, Cl. Sci. Phys. Math.) 11: 1-218 [= Z'irnik Zool. Muz. (Trav. Mus. Zool.) 11].
- 1931b. Dipterologische Fragmente. [Notes from Berlin Museum]. *Mém. Sci. Nat. Tech. Acad. Sci. Ukraine* 5 (26): 221-239.
1934. Über einige exotische (hauptsächlich südamerikanische) Bombyliiden (Diptera). *Konowia* 13 (1): 22-34.
1940. Über einige aussereuropäische (hauptsächlich amerikanische) Bombyliiden-Gattungen. *Eos* 13: 13-43.
- 1947a. Zur Kerntnis der amerikanischen Bombyliiden-Gattung *Triplochus* Edw. (Diptera). *Rev. Ent.*, Rio de J. 18 (1-2): 183-192.
- 1947b. Zurze Uebersicht der *Sericosoma*-Arten (Bombyliidae, Dipteren). *Rev. Ent.*, Rio de J. 18 (3): 361-369.





1948. Uebersicht der Bombyliiden-Gattung *Lyophlaeba* Rond. (Diptera), nebst einer Bestimmungstabelle. *Rev. Ent.*, Rio de J. 19 (1-2): 115-148.
1949. Revision of the species of *Lepidophora* Westw. (Bombyliidae, Diptera). *Rev. Ent.*, Rio de J. 20 (1-3): 631-643.
1951. On two South American species of *Walkeromyia* Param. (Bombyliidae, Diptera). *Rev. Ent.*, Rio de J. 22 (1-3): 353-356.

PHILIPPI, R. A.

1865. Aufzählung der chilenischen Dipteren. *Verh. zool.-bot. Ges. Wien* 15: 595-782.
1873. Chilenische Insekten. *Stettin. ent. Ztg.* 34: 296-316.

PRIDDY, R. B.

1958. The genus *Conophorus* in North America (Diptera, Bombyliidae). *Jour. Kansas Ent. Soc.* 31: 1-33.

RONDANI, C.

1848. Esame di varie specie d'insetti ditteri brasiliani. *Studi Ent.* 1: 63-112.
1863. *Diptera exotica revisa et annotata*, 99 pp., 1 pl. Modena. [Also published as "Dipterorum species et genera aliqua exotica", in *Arch. Zool. Anat. Fis.*, Modena (1863) 3 (1): 1-99, pl. 5, 1864].
1868. Diptera aliqua in America meridionali lecta a Prof. P. Strobel annis 1866-1867, distincta et annotata, novis aliquibus descriptis. *Annuar. Soc. Nat. Modena* 3: 24-40.

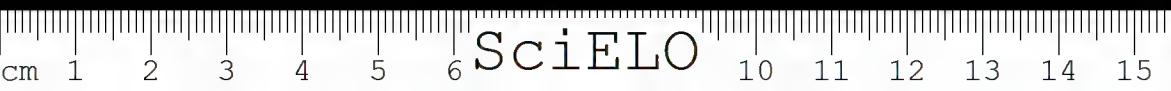
SAY, T.

1823. Descriptions of dipterous insects of the United States. *Jour. Acad. Nat. Sci. Phila.* 3: 9-54, 73-104. [1859: 38-66, 67-89].
1824. Appendix. Part I. — Natural History. 1. Zoology. E. Class Insecta, pp. 268-378, in W. H. Keating, *Major Long's second expedition* 2: 459 pp., pls. 6-15. Philadelphia. [1859: 176-258].
- 1829-1830. Descriptions of North American dipterous insects. *Jour. Acad. Nat. Sci. Phila.* (1829-1830) 6: 149-178, 1829; 183-188, 1830. [1859: 348-368, 368-371].
1859. *The complete writings of Thomas Say on the entomology of North America* 2: 814 pp. New York. (J. L. LeConte ed.).

SCHINER, I. R.

1860. Vorläufiger Commentar zum dipterologischen Theile der "Fauna Austriaca", mit einer näheren Begründung der in derselben aufgenommenen neuen Dipteren-Gattungen. I. *Wien. ent. Monatschr.* 4: 47-55.
1867. Zweiter Bericht über die von der Weltumsehlungsreise (sic) der k. Fregatte Novara mitgebrachten Dipteren. *Verh. zool.-bot. Ges. Wien* 17: 303-314.

1868. Diptera, [Art. 1], 388 pp., 4 pls., in [Wüllerstorff-Urbair, B. von, in charge] *Reise der österreichische Fregatte Novara Zool.* 2 (1, B). Wien.
- SCOPOLI, J. A.
1763. *Entomologia carniolica exhibens insecta carnioliae indigene et distributa in ordines, genera, species, varietates methodo Linnaeana*, 421 pp. Vienna.
- SÉGUY, E.
1930. Note sur quatre toxophorines de l'Amérique Centrale et Méridionale. *Rev. Chil. Hist. Nat.* (1929) 33: 532-536.
- SFEISER, P.
1920. Zur Kenntnis der Diptera Orthorrhapha Brachycera. *Zool. Jahrb. (Abt. Syst.)* 43: 195-220.
- THOMSON, C. G.
1869. 6. Diptera. Species nova descripsit, pp. 443-614, pl. 9 (= h. 2, n° 2), in K. Svenska Vetenskaps-Akademien, *Kongliga svenska fregatten Eugénies resa omkring jorden*, 2 (Zool., 1. Insekter): 617 pp., 9 pls., Stockholm, "1868".
- THUNBERG, C. P.
1827. Tanyglossae septemdecim novae species descriptae. *Nova Acta Upsal.* 9: 63-75.
- TOWNSEND, C. H. T.
1901. New and little known Diptera from the Organ Mts. and vicinity in New Mexico. *Trans. Amer. Ent. Soc.* 27: 159-164.
- WALKER, F.
1849. *List of the specimens of dipterous insects in the collection of the British Museum* 2: 231-484; 4: 689-1172. London.
1850. Characters of undescribed Diptera in the British Museum. *Zoologist* (Newman's) 8 (Appendix): lxxv, xcix-cxxix, cxxxi-cxxii.
1852. Diptera [cont.], Vol. 1, pp. 157-252, 253-414, 4 pls., in [W. W. Saunders, ed.], *Insecta Saundersiana*. London, "1856".
- 1857-1858. Characters of undescribed Diptera in the collection of W. W. Saunders. *Trans. Ent. Soc. London* (n.s.) [= ser. 2] 4: 119-158, 1857; 190-235, 1858.
1860. Characters of undescribed Diptera in the collection of W. W. Saunders. *Trans. Ent. Soc. London* (1858-1861) (n.s.) [= ser. 2] 5: 268-296.
- WESTWOOD, J. O.
1835. Insectorum novorum exoticorum (ex ordine dipterorum) descriptiones. *London & Edinb. Phil. Mag. & Jour. Sci* (3) 6: 280-281, 447-449.



1842. *Generis dipteriorum monographia* Systropi. (Guérin-Ménéville's) *Mag. Zool.* (2) 4 (12): 1-4, 1 pl.

WIEDEMANN, C. R. W.

1819. *Brasilianische Zweiflügler*. *Zool. Mag.* (Wiedemann's) 1 (3): 40-56.
1820. *Munus rectoris in Academia Christiano-Albertina iterum aditurus nova dipterorum genera offert iconibusque illustrat*, 23 pp., 1 pl. Kiliae Holsatorum.
1821. *Diptera exotica* [Ed. 2], 244 pp., 1 fig., 2 pls. Kiliae.
1824. *Munus rectoris in Academia Christiana Albertina aditurus analecta entomologica ex Museo Regio Havniensi*, 60 pp., 1 pl. Kiliae.
1828. *Aussereuropäische zweiflügelige Insekten 1*: xxxii + 608 pp., 7 pls., Hamm.
1830. *Aussereuropäische zweiflügelige Insekten 2*: xii + 684 pp., 5 pls. Hamm.

WILLISTON, S. W.

1893. New or little-known Diptera. *Kansas Univ. Quart.* 2: 59-78.
1895. New Bombyliidae. *Kansas Univ. Quart.* 3: 267-269.
- 1900-1901. Supplement [part], pp. 217-248, 1900; pp. 249-264, 265-272, 273-296, 297-328, 329-332, pls. 4-5 — pl. 6, figs. 1-6, 1901, in F. D. Godman & O. Salvin, eds., *Biologia Centrali-Americana, Zoologia-Insecta-Diptera 1*: 378 pp., 6 pls. London.
1907. Dipterological notes. *Jour. N. Y. Ent. Soc.* 15: 1-2.
1908. *Manual of North American Diptera* (Ed. 3), 405 pp., 163 figs. New Haven, Conn.

WULP, F. M. VAN DER

1881. Amerikaansche Diptera. *Tijdschr. v. Ent.* 24: 141-168, pl. 15.
1882. Amerikaansche Diptera. *Tijdschr. v. Ent.* (1881-1882) 25: 77-136, pls. 9-10.
1888. Nieuwe argentijnische Diptera van Wijlen Prof. H. Weyenbergh, Jr. *Tijdschr. v. Ent.* 31: 359-376, pls. 9-10.

ZETTERSTEDT, J. W.

1838. Dipterologis Scandinaviae. Sect. 3: Diptera, pp. 477-868, in his *Insecta Lapponica*, vi + 1140 pp. Lipsiae.
1842. *Diptera Scandinaviae. Disposita et descripta 1*: iii-xvi + 440 pp. Lundae.

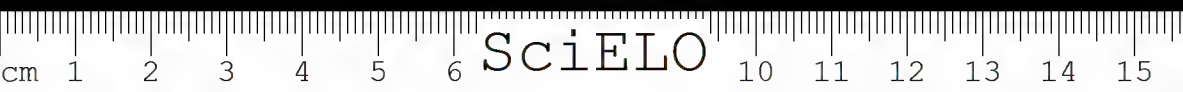
# INDEX

|   |       |
|---|-------|
| abbreviata (Wiedemann), 1830 (Anthrax), Ylasoia .....             | 38.29 |
| abdominalis Wiedemann, 1828, Bombylius .....                      | 38.2  |
| acroleucus Wiedemann, 1828, Anthrax .....                         | 38.31 |
| Acrophthalmyda Bigot, 1858 .....                                  | 38.2  |
| actios Hall, 1976, Sericosoma .....                               | 38.10 |
| actites Painter, 1969, Exoprosopa .....                           | 38.39 |
| acutus Painter, 1963, Systropus .....                             | 38.18 |
| adonis Osten Sacken, 1886, Astrophanes .....                      | 38.37 |
| adumbrata (Coquillett), 1887 (Anthrax), Villa (Chrysanthrax) .... | 38.45 |
| aequa Walker, 1852, Anthrax .....                                 | 38.33 |
| Agitonia Hull, 1966 .....   | 38.37 |
| agnastis Hall, 1976, Mythicomya .....                             | 38.11 |
| agrippina (Osten Sacken), 1887 (Anthrax), Villa (Villa) .....     | 38.53 |
| alacer Painter, 1969, Ligyra .....                                | 38.42 |
| albicincta Cole, 1923, Villa (Villa) .....                        | 38.53 |
| albicollaris Cole, 1923, Villa (Villa) .....                      | 38.53 |
| albida Wiedemann, 1821, Phthiria (Cyclorhynchus) .....            | 38.14 |
| albidus Walker, 1857, Geron .....                                 | 38.17 |
| albifacies (Rondani), 1863 (Anthrax), Villa (Villa) .....         | 38.54 |
| albissima Oldroyd, 1938, Villa (Villa) .....                      | 38.53 |
| albiventris (Macquart), 1848 (Exoprosopa), Ligyra .....           | 38.43 |
| albofasciatus Macquart, 1840, Anthrax .....                       | 38.30 |
| albopenicillatus (Bigot), 1892 (Bombylius), Parabombylius .....   | 38.4  |
| albopilosa Hall, 1976, Lyophlaeba (Lyophlaeba) .....              | 38.27 |
| albopilosus (Cole), 1923 (Rhabdopselaphus), Oligodranes .....     | 38.16 |
| albosparsus (Bigot), 1892 (Argyromoeba), Anthrax .....            | 38.30 |
| alhus Cole, 1923, Geron .....                                     | 38.17 |
| aleyon (Say), 1824 (Anthrax), Poecilanthrax .....                 | 38.38 |
| aldrichi Johnson, 1903, Phthiria (Poecilognathus) .....           | 38.14 |
| Allocotus Loew, 1872 .....  | 38.23 |
| alterans Williston, 1901, Phthiria (Poecilognathus) .....         | 38.14 |
| amabilis (Wulp), 1881 (Dischistus), Euprepina .....               | 38.9  |
| amasia (Wiedemann), 1828 (Anthrax), Villa (Villa) .....           | 38.53 |
| ambigua (Lynch Arribáizaga), 1878 (Anthrax), Villa (Villa) .....  | 38.53 |
| amegiston Hall, 1973, Lyophlaeba (Lyophlaeba) .....               | 38.27 |
| amicula Séguy, 1930, Toxophora .....                              | 38.20 |
| ammophiloides Townsend, 1901, Systropus .....                     | 38.18 |
| Amphicosmus Coquillett, 1891 .....                                | 38.24 |
| analis Macquart, 1834, Anthrax .....                              | 38.30 |
| analis Say, 1823, Anthrax .....                                   | 38.30 |
| analis Williston, 1901 (Oncodocera), Ogcodocera .....             | 38.24 |
| andinus Brêthes, 1909, Astrophanes .....                          | 38.37 |
| angulatus Brêthes, 1909, Anthrax .....                            | 38.30 |
| angulus Osten Sacken, 1886, Lepidanthrax .....                    | 38.34 |
| angustipennis Edwards, 1937, Triploechnus .....                   | 38.5  |
| angustipennis Macquart, 1840, Anthrax .....                       | 38.30 |
| Anisotamia, authors .....   | 38.24 |
| annulata Melander, 1961, Mythicomya .....                         | 38.11 |
| antecedens Walker, 1852, Anthrax .....                            | 38.30 |
| Anthracinae .....   | 38.29 |

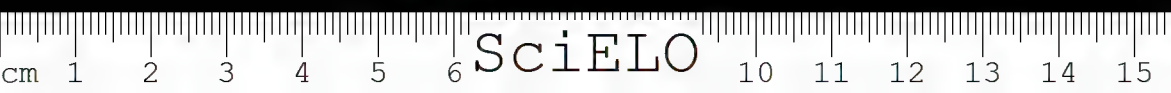




|   |       |
|---|-------|
| anthracoida Jaennicke, 1867, Exoprosopa .....   | 38.39 |
| <i>Anthrax</i> , authors .....  | 38.45 |
| <i>Anthrax</i> Scopoli, 1763 .....  | 38.29 |
| <i>antica</i> (Walker), 1852 ( <i>Anthrax</i> ), <i>Exoprosopa</i> .....                                  | 38.39 |
| <i>apertus</i> (Macquart), 1847 ( <i>Bombylius</i> ), <i>Sparnopolius</i> .....                           | 38.7  |
| <i>Aphoebantus</i> Loew, 1872 .....   | 38.25 |
| <i>epiculus</i> Coquillett, 1887, <i>Lordotus</i> .....   | 38.6  |
| <i>Apolysis</i> Loew, 1860 .....  | 38.16 |
| <i>aquila</i> Hall, 1976, <i>Villa</i> ( <i>Villa</i> ) .....   | 38.53 |
| <i>aquilus</i> Marston, 1970, <i>Anthrax</i> .....  | 38.33 |
| <i>arenaria</i> Hall, 1976, <i>Villa</i> ( <i>Chrysanthrax</i> ) .....                                    | 38.45 |
| <i>arenicola</i> Cole, 1923, <i>Villa</i> ( <i>Villa</i> ) .....  | 38.56 |
| <i>arenosa</i> (Coquillett), 1892 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) .....          | 38.45 |
| <i>arethusia</i> (Osten Sacken), 1886 ( <i>Anthrax</i> ), <i>Poecilanthrax</i> .....                      | 38.38 |
| <i>argentifasciata</i> Macquart, 1846, <i>Exoprosopa</i> .....  | 38.39 |
| <i>argentiflua</i> (Philippi), 1865 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Villa</i> ) .....               | 38.53 |
| <i>argentifrons</i> Cole, 1923, <i>Aphoebantus</i> .....  | 38.25 |
| <i>argentifrons</i> Williston, 1895, <i>Desmatoneura</i> .....  | 38.26 |
| <i>argentinae</i> Paramonov, 1940, <i>Lyophlaeba</i> ( <i>Lyophlaeba</i> ) .....                          | 38.27 |
| <i>argentinae</i> Paramonov, 1947, <i>Sericosoma</i> .....  | 38.10 |
| <i>argentea</i> Painter, 1933, <i>Villa</i> ( <i>Chrysanthrax</i> ) .....                                 | 38.45 |
| <i>Argyro-moeba</i> , emend. ....   | 38.29 |
| <i>Argyro-moeba</i> Schiner, 1860 .....   | 38.29 |
| <i>argyropygus</i> Wiedemann, 1828, <i>Anthrax</i> .....  | 38.30 |
| <i>ariditata</i> Cole, 1923, <i>Villa</i> ( <i>Villa</i> ) .....  | 38.53 |
| <i>arizonicus</i> Banks, 1909, <i>Systropus</i> .....   | 38.18 |
| <i>armata</i> Cresson, 1915, <i>Mythicomyia</i> .....   | 38.12 |
| <i>artemesia</i> Marston, 1963, <i>Anthrax</i> .....  | 38.32 |
| <i>astarte</i> (Wiedemann), 1830 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) .....           | 38.45 |
| <i>astrella</i> Hull & Martin, 1974, <i>Neodiplocampta</i> ( <i>Neodiplocampta</i> ) .....                | 38.36 |
| <i>Astrophanes</i> Osten Sacken, 1886 .....   | 38.37 |
| <i>ater</i> (Coquillett), 1824 ( <i>Thlipsogaster</i> ), <i>Parabombylius</i> .....                       | 38.4  |
| <i>atra</i> Cresson, 1915, <i>Mythicomyia</i> .....   | 38.12 |
| <i>atra</i> Painter, 1968, <i>Hyperalonia</i> .....   | 38.58 |
| <i>atrata</i> (Coquillett), 1904 ( <i>Acreotrichus</i> ), <i>Phthiria</i> ( <i>Poecilognathus</i> ) ..... | 38.14 |
| <i>atratus</i> (Loew), 1872 ( <i>Ploas</i> ), <i>Conophorus</i> .....                                     | 38.7  |
| <i>atripes</i> Cole, 1923, <i>Exoprosopa</i> .....  | 38.39 |
| <i>atriplex</i> Marston, 1970, <i>Anthrax</i> .....   | 38.30 |
| <i>aurata</i> (Williston), 1893 ( <i>Eclimius</i> ), <i>Thevenemyia</i> .....                             | 38.22 |
| <i>aurca</i> Macquart, 1848, <i>Toxophora</i> .....   | 38.20 |
| <i>auricomus</i> Hall, 1976, <i>Geron</i> .....   | 38.17 |
| <i>aurifera</i> Rondani, 1848, <i>Toxophora</i> .....   | 38.20 |
| <i>auripila</i> (Bigot), 1892 ( <i>Amictus</i> ), <i>Thevenemyia</i> .....                                | 38.22 |
| <i>auripila</i> (Osten Sacken), 1887 ( <i>Eclimius</i> ), <i>Thevenemyia</i> .....                        | 38.22 |
| <i>aurovittatus</i> Macquart, 1850, <i>Bombylius</i> .....  | 38.3  |
| <i>austardina</i> Edwards, 1937, <i>Phthiria</i> ( <i>Phthiria</i> ) .....                                | 38.14 |
| <i>austrinus</i> Marston, 1970, <i>Anthrax</i> .....  | 38.30 |
| <i>aztec</i> Painter, 1969, <i>Exoprosopa</i> .....   | 38.39 |
| <i>aztec</i> Painter, 1962, <i>Phthiria</i> ( <i>Phthiria</i> ) .....                                     | 38.14 |
| <i>azteca</i> Hull & Martin, 1974, <i>Neodiplocampta</i> ( <i>Neodiplocampta</i> ) .....                  | 38.37 |
| <i>badia</i> Coquillett, 1904, <i>Phthiria</i> ( <i>Poecilognathus</i> ) .....                            | 38.14 |
| <i>baliopteros</i> Marston, 1970, <i>Anthrax</i> .....  | 38.30 |



|  |       |
|--|-------|
| <i>balteata</i> (Philippi), 1865 (Anthrax), Villa (Exhyalanthrax) .....        | 38.56 |
| <i>barbata</i> Philippi, 1865, Phthiria .....                                  | 38.14 |
| <i>barbata</i> Rondani, 1863 (Phthyria), Phthiria .....                        | 38.14 |
| <i>barbiventris</i> (Rondani), 1868 (Anthrax), Villa (Villa) .....             | 38.53 |
| <i>basilaris</i> Painter, 1963, Systropus .....                                | 38.18 |
| <i>basilaris</i> (Wiedemann), 1819 (Bombylius), Heterostylum .....             | 38.5  |
| <i>bellula</i> Painter, 1969, Exoprosopa .....                                 | 38.39 |
| <i>bellulus</i> Philippi, 1865, Anthrax .....                                  | 38.31 |
| <i>bellus</i> (Philippi), 1865 (Bombylius), Triploeuchus .....                 | 38.5  |
| <i>bicincta</i> Hull, 1971, Euprepina .....                                    | 38.9  |
| <i>bicincta</i> (Wiedemann), 1830 (Bombylius), Euprepina .....                 | 38.9  |
| <i>bicolor</i> (Loew), 1861 (Bombylius), Heterostylum .....                    | 38.4  |
| <i>bicolor</i> (Wulp), 1888 (Comastes), Heterostylum .....                     | 38.5  |
| <i>bicornis</i> Painter, 1963, Systropus .....                                 | 38.18 |
| <i>bifasciata</i> (Macquart), 1850 (Comptosia), Lyophlaeba (Lyophlaeba)        | 38.27 |
| <i>bigoti</i> (Edwards), 1934 (Macrocondyla), Lyophlaeba (Macrocondyla) .....  | 38.28 |
| <i>bigoti</i> Hall, 1976, Villa (Villa) .....                                  | 38.10 |
| <i>bigotiana</i> Edwards, 1937, Sericosoma .....                               | 38.10 |
| <i>bigradata</i> (Loew), 1869 (Anthrax), Villa (Hemipenthes) .....             | 38.47 |
| <i>binotata</i> Painter, 1968, Desmatomyia .....                               | 38.16 |
| <i>binotatus</i> Macquart, 1846, Anthrax .....                                 | 38.30 |
| <i>bipartita</i> (Bigot), 1892 (Exoprosopa), Villa (Chrysanthrax) .....        | 38.46 |
| <i>bipartita</i> (Jaennicke), 1867 (Anthrax), Villa (Villa) .....              | 38.54 |
| <i>bipenicillatus</i> (Bigot), 1892 (Anthrax), Villa (Villa) .....             | 38.54 |
| <i>bistella</i> (Walker), 1850 (Anthrax), Villa .....                          | 38.57 |
| <i>bisulcus</i> Osten Sacken, 1887, Aphoebantus .....                          | 38.25 |
| <i>bizona</i> (Walker), 1850 (Exoprosopa), Ligyra .....                        | 38.42 |
| <i>bianchardi</i> Paramonov, 1931, Lyophlaeba .....                            | 38.27 |
| <i>blanchardi</i> (Philippi), 1865 (Anthrax), Villa (Thyridanthrax) ....       | 38.52 |
| <i>blanchardiana</i> (Jaennicke), 1867 (Exoprosopa), Villa (Hemipenthes) ..... | 38.50 |
| <i>boliviana</i> Paramonov, 1948, Lyophlaeba (Lyophlaeba) .....                | 38.27 |
| Bombyliinae .....  | 38.2  |
| <i>Bombylisoma</i> Rondani of Rondani, 1863, misident. ....                    | 38.2  |
| Bombylius Linnaeus, 1758 .....   | 38.2  |
| <i>brachialis</i> (Thomson), 1869 (Anthrax), Lepidanthrax .....                | 38.34 |
| <i>Brachydemia</i> Hull, 1973 .....  | 38.25 |
| <i>brachyglossa</i> Hall, 1976, Lyophlaeba (Lyophlaeba) .....                  | 38.27 |
| <i>brachytis</i> Hall, 1967, Mythicomysia .....                                | 38.12 |
| <i>brasiliiana</i> Hull & Martin, 1974, Neodiplocampta (Neodiplocampta)        | 38.36 |
| <i>brasiliensis</i> Macquart, 1847, Systropus .....                            | 38.18 |
| <i>brevirostris</i> (Macquart), 1840 (Bombylius), Sparnopolius .....           | 38.7  |
| <i>brevirostris</i> Williston, 1901, Exoprosopa .....                          | 38.39 |
| <i>brevistylata</i> Williston, 1901, Exoprosopa .....                          | 38.39 |
| <i>Bryodema</i> Hull, 1966 .....   | 38.24 |
| <i>Bryodemina</i> Hull, 1973 .....   | 38.24 |
| <i>butleri</i> Johnson & Johnson, 1959, Exoprosopa .....                       | 38.39 |
| <i>caatingensis</i> Marston, 1970, Anthrax .....                               | 38.31 |
| <i>Cacoplox</i> Hull, 1970 .....   | 38.8  |
| <i>californicus</i> (Cole), 1917 (Anthrax), Poecilanthrax .....                | 38.38 |
| <i>californicus</i> Hall, 1976, Lepidanthrax .....                             | 38.34 |

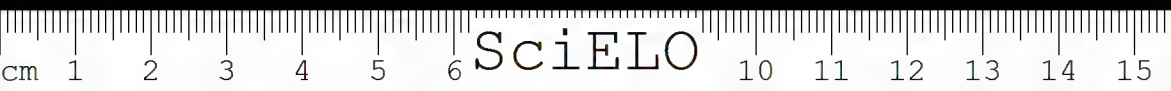


|  |       |
|--|-------|
| caliptera (Say), 1823 (Anthrax), Exoprosopa .....                            | 38.40 |
| callima Painter, 1969, Exoprosopa .....                                      | 38.40 |
| calogastra (Philippi), 1865 (Anthrax), Villa (Paranthrax) .....              | 38.50 |
| calopas (Bigot), 1892 (Systropus), Dolichomyia .....                         | 38.20 |
| Calopelta Greene, 1921 .....   | 38.7  |
| caloptera (Macquart), 1834 (Lomatia), Ylasoia .....                          | 38.29 |
| caloptera (Philippi), 1865 (Anthrax), Villa (Villa) .....                    | 38.53 |
| caloptera (Schiner), 1868 (Argyromoeba), Anthrax .....                       | 38.33 |
| calvescens (Philippi), 1865 (Anthrax), Villa (Villa) .....                   | 38.54 |
| caminaria (Wiedemann), 1830 (Bombylius), Euprepina .....                     | 38.9  |
| camposi Hall, 1976, Villa (Villa) .....                                      | 38.53 |
| cana Philippi, 1865, Phthiria .....  | 38.14 |
| canescens (Philippi), 1865 (Comptosia), Lyophlaeba (Macrocon-<br>dyla) ..... | 38.28 |
| canus Philippi, 1865, Geron .....  | 38.17 |
| capnopennis Hall, 1976, Lepidanthrax .....                                   | 38.34 |
| capnopennis Hall, 1976, Phthiria (Megaphthiria) .....                        | 38.14 |
| carbonarius Osten Sacken, 1887, Aphoebantus .....                            | 38.25 |
| carus Cresson, 1923, Lordotus .....  | 38.6  |
| castanea (Jaennicke), 1867 (Anthrax), Villa (Paravilla) .....                | 38.50 |
| castilla Painter, 1930, Exoprosopa .....                                     | 38.40 |
| cathodaithmos Marston, 1970, Anthrax .....                                   | 38.31 |
| Cephenus Berthold, 1827 .....  | 38.17 |
| cephus Fabricius, 1805, Anthrax .....  | 38.31 |
| cerberus (Fabricius), 1794 (Anthrax), Ligyra .....                           | 38.42 |
| cerberus Fabricius of Macquart, 1840 (Exoprosopa), Ligyra,<br>misident. .... | 38.44 |
| cerdo Osten Sacken, 1887, Systropus .....                                    | 38.18 |
| ceria (Williston), 1901 (Anthrax), Villa (Chrysanthrax) .....                | 38.45 |
| cervinus Loew, 1872, Aphoebantus .....                                       | 38.25 |
| chalcus Hall, 1976, Lepidanthrax .....                                       | 38.35 |
| chilena Rondani, 1863 (Phthyria), Phthiria (Phthiria) .....                  | 38.14 |
| chilensis Hall, 1976, Aphoebantus .....                                      | 38.25 |
| chilensis Hall, 1976, Metacosmus .....                                       | 38.23 |
| chilensis Hall, 1976, Sericosoma .....                                       | 38.10 |
| chilensis Paramonov, 1931, Cyrtomyia .....                                   | 38.22 |
| chilensis Paramonov, 1934, Eurycaenus .....                                  | 38.9  |
| chilensis Paramonov, 1931, Lyophlaeba .....                                  | 38.28 |
| chilensis (Philippi), 1865 (Systropus), Dolichomyia .....                    | 38.20 |
| chilensis (Philippi), 1865 (Anthrax), Villa (Paranthrax) .....               | 38.50 |
| chilensis Rondani, 1863, Hyperalonia .....                                   | 38.58 |
| chimaera (Osten Sacken), 1887 (Anthrax), Villa (Hemipenthes)                 | 38.47 |
| chorista Hall, 1973, Lyophlaeba (Lyophlaeba) .....                           | 38.27 |
| choristus Hall, 1976, Lepidanthrax .....                                     | 38.35 |
| Chrysanthrax Osten Sacken, 1886 .....  | 38.45 |
| chrysus Hall, 1976, Lepidanthrax .....                                       | 38.35 |
| cincturus Williston, 1901, Amphicosmus .....                                 | 38.24 |
| cinerascens (Bigot), 1892 (Amictus), Dischistus .....                        | 38.8  |
| cinerea Cole, 1923, Villa (Paravilla) .....                                  | 38.50 |
| cinerea (Lynch Arribáizaga), 1878 (Mulio), Cytherea .....                    | 38.11 |
| cingulata Loew, 1846, Phthiria (Phthiria) .....                              | 38.14 |
| cintalapa Cole, 1957, Anthrax .....  | 38.31 |
| citrina Hall, 1976, Mythicomomyia .....                                      | 38.12 |





|  |       |
|--|-------|
| <i>cielia</i> Osten Sacken, 1886, <i>Stonyx</i> .....  | 38.34 |
| <i>clinopictus</i> Marston, 1970, <i>Anthrax</i> .....   | 38.31 |
| <i>clio</i> Williston, 1901, <i>Bombylius</i> .....  | 38.3  |
| <i>clotho</i> (Wiedemann), 1830 ( <i>Anthrax</i> ), <i>Stonyx</i> .....                          | 38.34 |
| <i>coeruleiventris</i> (Macquart), 1846 ( <i>Exoprosopa</i> ), <i>Hyperalonia</i> ....           | 38.58 |
| <i>colei</i> , nom. nov., <i>Geron</i> .....   | 38.17 |
| <i>collaris</i> Painter, 1933, <i>Neodischistus</i> .....  | 38.10 |
| <i>columbianus</i> (Karsch), 1880 ( <i>Cephenus</i> ), <i>Systropus</i> .....                    | 38.18 |
| <i>Comastes</i> Osten Sacken, 1877 .....   | 38.4  |
| <i>Compsella</i> Hull, 1973 .....  | 38.27 |
| <i>Comptosia</i> , authors .....   | 38.27 |
| <i>conclusa</i> (Walker), 1857 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) .....    | 38.45 |
| <i>confusus</i> (Wiedemann), 1824 ( <i>Bombylius</i> ), <i>Sparnopolius</i> .....                | 38.7  |
| <i>confacies</i> (Macquart), 1850 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) ....  | 38.46 |
| <i>coniocera</i> Hall, 1976, <i>Dolichomyia</i> .....  | 38.20 |
| <i>conopas</i> (Philippi), 1865 ( <i>Anthrax</i> ), <i>Diplocampta</i> .....                     | 38.44 |
| <i>Conophorus</i> Meigen, 1803 .....   | 38.7  |
| <i>conopoides</i> Künckel d'Herculais, 1905, <i>Systropus</i> .....                              | 38.18 |
| <i>consobrina</i> (Philippi), 1865 ( <i>Comptosia</i> ), <i>Lyophlaeba</i> ( <i>Lyophlaeba</i> ) | 38.27 |
| <i>consors</i> Osten Sacken, 1887, <i>Phthiria</i> ( <i>Phthiria</i> ) .....                     | 38.14 |
| <i>constituta</i> (Walker), 1852 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Hemipenthes</i> ) .....   | 38.48 |
| <i>consul</i> (Osten Sacken), 1886 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Paravilla</i> ) .....   | 38.50 |
| <i>contigua</i> (Loew), 1869 ( <i>Argyromoeba</i> ), <i>Anthrax</i> .....                        | 38.30 |
| <i>conurus</i> Osten Sacken, 1887, <i>Aphobantus</i> .....                                       | 38.25 |
| <i>convexa</i> (Walker), 1857 ( <i>Anthrax</i> ), <i>Exoprosopa</i> .....                        | 38.40 |
| <i>coquilletti</i> (Williston), 1901 ( <i>Bombylius</i> ), <i>Parabombylius</i> .....            | 38.4  |
| <i>cordillerensis</i> Marston, 1970, <i>Anthrax</i> .....  | 38.31 |
| <i>corrigiolata</i> (Rondani), 1863 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Exhyalanthrax</i> )    | 38.56 |
| <i>costalis</i> (Wiedemann), 1828 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Villa</i> ) .....        | 38.55 |
| <i>costaricensis</i> Marston, 1970, <i>Anthrax</i> .....   | 38.31 |
| <i>costata</i> (Bigot), 1892 ( <i>Glossista</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) .....    | 38.45 |
| <i>costata</i> (Bigot), 1892 ( <i>Glossista</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) .....    | 38.45 |
| <i>cracens</i> Painter, 1969, <i>Exoprosopa</i> .....  | 38.40 |
| <i>crepuscularis</i> (Lynch Arribáizaga), 1878 ( <i>Anthrax</i> ), <i>Villa</i> .....            | 38.57 |
| <i>crinita</i> (Bigot), 1892 ( <i>Argyromoeba</i> ), <i>Anthrax</i> .....                        | 38.33 |
| <i>crocina</i> (Coquillett), 1892 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) ..... | 38.46 |
| <i>cubana</i> Loew, 1869, <i>Exoprosopa</i> .....  | 38.40 |
| <i>culiciformis</i> (Hull), 1965 ( <i>Eclimius</i> ), <i>Thevenemyia</i> .....                   | 38.22 |
| <i>culiciformis</i> Walker, 1850, <i>Lepidophora</i> .....                                       | 38.21 |
| <i>cuneata</i> Painter, 1939, <i>Lepidophora</i> .....   | 38.21 |
| <i>cunicula</i> (Osten Sacken), 1886 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Paravilla</i> ) ....  | 38.51 |
| <i>cuprea</i> (Fabricius), 1787 ( <i>Bombylius</i> ), <i>Toxophora</i> .....                     | 38.21 |
| <i>currani</i> Carrera & d'Andretta, 1950, <i>Systropus</i> .....                                | 38.18 |
| <i>currani</i> Painter, 1933, <i>Neodischistus</i> .....   | 38.10 |
| <i>curta</i> (Loew), 1869 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Hemipenthes</i> ) .....          | 38.48 |
| <i>curvirostris</i> (Thomson), 1869 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Villa</i> ) .....      | 38.53 |
| <i>Cyananthrax</i> Painter, 1959 .....   | 38.57 |
| <i>cyanoptera</i> (Wiedemann), 1830 ( <i>Anthrax</i> ), <i>Cyananthrax</i> .....                 | 38.58 |
| <i>cyclops</i> Osten Sacken, 1887, <i>Aphobantus</i> .....                                       | 38.25 |
| <i>Cyclorrhynchus</i> Macquart, 1840 .....   | 38.13 |
| <i>Cyclorrhynchus</i> , emend. ....  | 38.14 |
| <i>Cyllenia</i> Latreille, 1802 .....  | 38.23 |
| <i>Cylleniinae</i> .....   | 38.23 |





|   |       |
|---|-------|
| <i>cypris</i> (Meigen), 1820 (Anthrax), Villa (Chrysanthrax) .....                      | 38.46 |
| <i>Cyrtomyia</i> Eigtot, 1892 .....   | 38.22 |
| <i>Cyrtophorus</i> Bigot, 1857 .....  | 38.22 |
| <i>Cytherea</i> Fabricius, 1794 .....   | 38.11 |
| <i>Cythereinae</i> .....  | 38.10 |
|   |       |
| <i>decemmacula</i> (Walker), 1857 (Anthrax), Neodiplocampta (Neodi-<br>plocampta) ..... | 38.36 |
| <i>decorata</i> (Rondani), 1863 (Bombylisoma), Acrophthalmyda .....                     | 38.2  |
| <i>delicatus</i> Walker, 1849, Anthrax .....  | 38.31 |
| <i>delila</i> (Loew), 1869 (Argyromoeba), Anthrax .....                                 | 38.31 |
| <i>dentei</i> d'Andretta & Carrera, 1952, Aphoebantus .....                             | 38.25 |
| <i>depressa</i> (Loew), 1855 (Platamodes), Platamomyia .....                            | 38.8  |
| <i>desertus</i> Coquillett, 1891, Aphoebantus .....                                     | 38.25 |
| <i>Desmatomyia</i> Williston, 1895 .....  | 38.16 |
| <i>Desmatoneura</i> Williston, 1895 .....   | 38.26 |
| <i>detecta</i> Schiner, 1868, Dolichomyia .....   | 38.20 |
| <i>detecta</i> (Walker), 1852 (Anthrax), Villa (Villa) .....                            | 38.53 |
| <i>Deusopora</i> Hull, 1971 .....   | 38.58 |
| <i>deustum</i> (Thunberg), 1827 (Tanyglossa), Heterostylum .....                        | 38.5  |
| <i>diamphus</i> Hall, 1976, Lepidanthrax .....  | 38.35 |
| <i>diana</i> (Williston), 1901 (Anthrax), Villa (Paravilla) .....                       | 38.51 |
| <i>dianella</i> Painter, 1962, Villa (Paravilla) .....                                  | 38.51 |
| <i>diasema</i> Hall, 1976, Mythicomomyia .....  | 38.12 |
| <i>dichoptus</i> Hall, 1976, Bombylius (Bombylius) .....                                | 38.3  |
| <i>dichotoma</i> (Schiner), 1868 (Exoprosopa), Villa (Chrysanthrax) .....               | 38.46 |
| <i>dido</i> (Osten Sacken), 1886 (Hyperalonia), Ligyra .....                            | 38.43 |
| <i>differens</i> Hall, 1976, Villa (Hemipenthes) .....                                  | 38.48 |
| <i>dimidiata</i> Macquart, 1840, Ogcodocera .....                                       | 38.24 |
| <i>dimidiata</i> (Wiedemann), 1819 (Anthrax), Villa (Chrysanthrax) .....                | 38.46 |
| <i>dimidiatus</i> Curran, 1942, Systropus .....   | 38.18 |
| <i>diminutiva</i> (Macquart), 1846 (Anthrax), Villa .....                               | 38.57 |
| <i>dioedes</i> Hall, 1976, Sericothrix .....  | 38.10 |
| <i>Dipalta</i> Osten Sacken, 1877 .....   | 38.36 |
| <i>Diplocampta</i> Schiner, 1867 .....  | 38.44 |
| <i>Dischistus</i> Loew, 1855 .....  | 38.7  |
| <i>discolor</i> Hall, 1976, Villa (Hemipenthes) .....                                   | 38.48 |
| <i>disjunctus</i> (Wiedemann), 1830 (Anthrax), Lepidanthrax .....                       | 38.35 |
| <i>dispar</i> (Coquillett), 1887 (Anthrax), Villa (Chrysanthrax) .....                  | 38.46 |
| <i>ditaenia</i> (Wiedemann), 1828 (Anthrax), Villa (Hemipenthes) .....                  | 38.48 |
| <i>diversus</i> Coquillett, 1891, Lordotus .....  | 38.6  |
| <i>diversus</i> Williston, 1901, Sparnopolius .....                                     | 38.7  |
| <i>divisa</i> (Coquillett), 1887 (Exoptata), Exoprosopa .....                           | 38.40 |
| <i>divisa</i> (Walker), 1852 (Anthrax), Villa (Hemipenthes) .....                       | 38.48 |
| <i>divisus</i> Cresson, 1919, Lordotus .....  | 38.6  |
| <i>Dolichomyia</i> Wiedemann, 1830 .....  | 38.20 |
| <i>dolorosa</i> Williston, 1901, Phthiria (Phthiria) .....                              | 38.15 |
| <i>dolorosus</i> (Williston), 1901 (Bombylius), Parabombylius .....                     | 38.4  |
| <i>dolorosus</i> Williston, 1901, Systropus .....                                       | 38.18 |
| <i>doecadion</i> Osten Sacken, 1877, Exoprosopa .....                                   | 38.40 |
| <i>dorsalis</i> (Walker), 1857 (Anthrax), Villa (Chrysanthrax) .....                    | 38.43 |

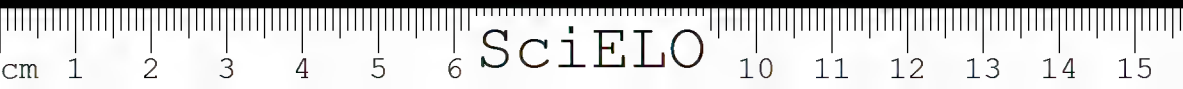
|   |       |
|---|-------|
| <i>dryitis</i> Séguy, 1930, Toxophora .....                                     | 38.20 |
| <i>dubia</i> (Macquart), 1846 (Mulio), Cytherea .....                           | 38.11 |
| <i>duocolor</i> Painter & Painter, 1974, Heterostylum .....                     | 38.4  |
| <i>duodecimpunctatus</i> Philippi, 1865, Anthrax .....                          | 38.33 |
| <i>durvillei</i> (Macquart), 1840 (Anthrax), Villa (Thyridanthrax) ....         | 38.52 |
| <b>Ecliminae</b> .....  | 38.22 |
| <i>Eclimus</i> , authors .....  | 38.22 |
| <i>edititia</i> (Say), 1829 (Anthrax), Villa (Chrysanthrax) .....               | 38.46 |
| <i>edititoides</i> Painter, 1933, Villa (Paravilla) .....                       | 38.51 |
| <i>edwardsi</i> Oldroyd, 1938, Villa (Hemipenthes) .....                        | 38.49 |
| <i>edwardsi</i> Paramonov, 1948, Lyophlaeba .....                               | 38.28 |
| <i>effrenus</i> (Coquillett), 1887 (Anthrax), Poecilanthrax .....               | 38.38 |
| <i>elegantula</i> (Bigot), 1857 (Cyllenina), Acrophthalmyda .....               | 38.2  |
| <i>ellipus</i> Hall, 1976, Lepidanthrax .....                                   | 38.35 |
| <i>Eniconeura</i> , emend. ....   | 38.20 |
| <i>Eniconeura</i> Macquart, 1840 .....  | 38.20 |
| <i>Epacmus</i> Osten Sacken, 1887 .....   | 38.26 |
| <i>epheba</i> (Osten Sacken), 1886 (Anthrax), Villa (Paravilla) .....           | 38.51 |
| <i>Epibates</i> Osten Sacken, 1877 .....  | 38.22 |
| <i>epilais</i> (Wiedemann), 1828 (Anthrax), Villa (Hemipenthes) .....           | 38.48 |
| <i>eremita</i> Osten Sacken, 1877, Exoprosopa .....                             | 38.40 |
| <i>erythrocephala</i> (Fabricius), 1805 (Anthrax), Hyperalonia .....            | 38.58 |
| <i>cumenes</i> (Osten Sacken), 1887 (Anthrax), Villa (Hemipenthes) .....        | 38.48 |
| <i>Euprepina</i> Hull, 1971 .....   | 38.9  |
| <i>curhinata</i> (Bigot), 1892 (Anthrax), Villa (Paravilla) .....               | 38.51 |
| <i>Eurycareus</i> Loew, 1860 .....  | 38.9  |
| <i>cuthemus</i> Hall, 1976, Lepidanthrax .....                                  | 38.35 |
| <i>evansi</i> Painter, 1969, Ligyra .....                                       | 38.43 |
| <i>Exhyalanthrax</i> Becker, 1916 .....   | 38.56 |
| <i>exilis</i> Coquillett, 1891, Metacosmus .....                                | 38.23 |
| <i>exilis</i> Hall, 1976, Diplocampta .....                                     | 38.44 |
| <i>exilis</i> Philippi, 1865, Phthiria (Phthiria) .....                         | 38.15 |
| <i>eximia</i> (Macquart), 1850 (Anisotamia), Bryodemina .....                   | 38.24 |
| <i>Exoprosopa</i> Macquart, 1840 .....  | 38.39 |
| <b>Exoprosopinae</b> .....  | 38.34 |
| <i>Exoptata</i> Coquillett, 1887 .....  | 38.39 |
| <i>extensa</i> (Wulp), 1888 (Exoprosopa), Villa (Hemipenthes) .....             | 38.48 |
| <i>faenoides</i> Westwood, 1842, Systropus .....                                | 38.18 |
| <i>falcata</i> Hull, 1973, Ulosometa .....                                      | 38.29 |
| <i>fasciata</i> (Williston), 1901 (Anisotamia), Bryodemina .....                | 38.24 |
| <i>fascifrons</i> Macquart, 1850, Sericosoma .....                              | 38.11 |
| <i>fasciolata</i> Painter, 1969, Exoprosopa .....                               | 38.40 |
| <i>fascipennis</i> (Williston), 1901 (Eclimus), Thevenemyia .....               | 38.22 |
| <i>fasciventris</i> Curran, 1928, Phthiria (Phthiria) .....                     | 38.15 |
| <i>fauna</i> (Fabricius), 1805 (Anthrax), Villa (Villa) .....                   | 38.54 |
| <i>faustina</i> (Osten Sacken), 1887 (Anthrax), Villa (Villa) .....             | 38.54 |
| <i>femoratus</i> (Karsch), 1880 (Cephenus), Systropus .....                     | 38.18 |
| <i>fenestella</i> (Wiedemann), 1828 (Anthrax), Ligyra .....                     | 38.43 |
| <i>fenestralis</i> (Wiedemann), 1830 (Anthrax), Ligyra .....                    | 38.43 |
| <i>fenestrata</i> Hull, 1973, Oestrimyza .....                                  | 38.58 |
| <i>fenestratoides</i> (Coquillett), 1892 (Anthrax), Villa (Thyridanthrax) ..... | 38.52 |



|  |       |
|--|-------|
| <i>ferrugineum</i> (Fabricius), 1805 (Bombylius), <i>Heterostylum</i> .....                                | 38.5  |
| <i>festiva</i> (Philippi), 1865 (Anthrax), Villa (Villa) .....   | 38.54 |
| <i>filia</i> Osten Sacken, 1886, <i>Exoprosopa</i> .....   | 38.40 |
| <i>flava</i> (Jaennicke), 1867 (Adelidea), <i>Lordotus</i> .....   | 38.6  |
| <i>flavescens</i> Philippi, 1865, <i>Bombylius</i> ( <i>Parasystoechus</i> ) .....                         | 38.3  |
| <i>flaviceps</i> (Guérin-Ménéville), 1844 (Anthrax), <i>Hyperalonia</i> .....                              | 38.58 |
| <i>flaviceps</i> (Loew), 1869 (Anthrax), <i>Poecilanthrax</i> .....  | 38.38 |
| <i>flavicincta</i> Cole, 1923, Villa (Villa) .....   | 38.54 |
| <i>flavicrura</i> Hall, 1976, Villa (Villa) .....  | 38.54 |
| <i>flavinervis</i> (Macquart), 1846 ( <i>Exoprosopa</i> ), <i>Lyophlaeba</i> ( <i>Macrocondyla</i> ) ..... | 38.28 |
| <i>flavipes</i> Cresson, 1915, <i>Mythicomyia</i> .....  | 38.12 |
| <i>flavipilosa</i> Cole, 1923, Villa ( <i>Paravilla</i> ) .....  | 38.51 |
| <i>flavipilosus</i> Cole, 1923, <i>Bombylius</i> .....   | 38.3  |
| <i>flavopilosa</i> Hall, 1976, <i>Lyophlaeba</i> ( <i>Lyophlaeba</i> ) .....                               | 38.27 |
| <i>flavosparsa</i> (Bigot), 1892 ( <i>Hyperalonia</i> ), <i>Ligyra</i> .....                               | 38.43 |
| <i>flavum</i> Macquart, 1848, <i>Heterostylum</i> .....  | 38.5  |
| <i>frontatus</i> (Philippi), 1865 ( <i>Bombylius</i> ), <i>Dischistus</i> .....                            | 38.8  |
| <i>fucata</i> Hall, 1976, Villa (Villa) .....  | 38.54 |
| <i>fuliginosus</i> (Loew), 1869 (Anthrax), <i>Poecilanthrax</i> .....                                      | 38.38 |
| <i>fuligosa</i> Painter, 1969, <i>Exoprosopa</i> .....   | 38.40 |
| <i>fulva</i> Edwards, 1937, <i>Sericosoma</i> .....  | 38.11 |
| <i>fulvago</i> (Philippi), 1865 (Anthrax), Villa ( <i>Chrysanthrax</i> ) .....                             | 38.47 |
| <i>fulvibasis</i> Macquart, 1855, <i>Bombylius</i> .....   | 38.3  |
| <i>fulvida</i> Coquillett, 1904, <i>Phthiria</i> ( <i>Poecilognathus</i> ) .....                           | 38.15 |
| <i>fulvipeda</i> (Rondani), 1863 (Anthrax), Villa (Villa) .....  | 38.54 |
| <i>fulvipes</i> (Coquillett), 1887 (Anthrax), Villa (Villa) .....  | 38.55 |
| <i>fulvohirta</i> (Wiedemann), 1821 (Anthrax), Villa ( <i>Chrysanthrax</i> ) .....                         | 38.46 |
| <i>fulvus</i> (Wiedemann), 1821 ( <i>Bombylius</i> ), <i>Sparnopolius</i> .....                            | 38.7  |
| <i>fumicosta</i> Painter, 1962, Villa (Villa) .....  | 38.54 |
| <i>fumiflamma</i> (Walker), 1852 (Anthrax), <i>Poecilanthrax</i> .....                                     | 38.38 |
| <i>fumipennis</i> Westwood, 1842, <i>Systropus</i> .....   | 38.18 |
| <i>fumosa</i> Cresson, 1919, <i>Exoprosopa</i> .....   | 38.40 |
| <i>funebri</i> Macquart, 1840, Anthrax .....   | 38.31 |
| <i>funereus</i> Costa, 1865 ( <i>Sistropus</i> ), <i>Systropus</i> .....                                   | 38.18 |
| <i>furva</i> , <i>Sericosoma</i> , emend. ....   | 38.11 |
| <i>fusca</i> (Fabricius), 1805 ( <i>Cytherea</i> ), Villa ( <i>Chrysanthrax</i> ) .....                    | 38.46 |
| <i>fuscipennis</i> Hall, 1976, <i>Lepidanthrax</i> .....   | 38.35 |
| <i>fuscipes</i> (Bigot), 1892 ( <i>Dischistus</i> ), <i>Sparnopolius</i> .....                             | 38.7  |
| <i>galapagensis</i> Painter & Painter, 1974, Villa ( <i>Hemipenthes</i> ) .....                            | 38.48 |
| <i>galathea</i> (Osten Sacken), 1886 (Anthrax), Villa ( <i>Hemipenthes</i> ) .....                         | 38.48 |
| <i>garaguaya</i> Hull & Martin, 1974, <i>Neodiplocampta</i> ( <i>Neodiplocampta</i> ) .....                | 38.37 |
| <i>gargantua</i> (Knab), 1915 ( <i>Hyperalonia</i> ), <i>Ligyra</i> .....                                  | 38.43 |
| <i>gausa</i> Melander, 1961, <i>Mythicomyia</i> .....  | 38.12 |
| <i>gayi</i> (Macquart), 1840 (Anthrax), Villa ( <i>Hemipenthes</i> ) .....                                 | 38.48 |
| <i>gazophylax</i> (Loew), 1869 ( <i>Exoprosopa</i> ), <i>Ligyra</i> .....                                  | 38.43 |
| <i>geijskesi</i> Curran, 1942, <i>Systropus</i> .....  | 38.19 |
| <i>georgica</i> Macquart, 1834, Anthrax .....  | 38.30 |
| Geron Meigen, 1820 .....   | 38.16 |
| Gerontinae .....   | 38.16 |
| <i>gibba</i> Melander, 1961, <i>Mythicomyia</i> .....  | 38.12 |
| <i>gibbus</i> Loew, 1863, <i>Lordotus</i> .....  | 38.6  |

|  |       |
|--|-------|
| <i>gideon</i> Fabricius, 1805, Anthrax .....   | 38.31 |
| <i>gideon</i> Fabricius cf Coquillett, 1894 ( <i>Argyramoeba</i> ), Anthrax,<br>misident. ....                       | 38.30 |
| <i>Glabella</i> Loew, 1873 .....   | 38.13 |
| <i>Glabellula</i> Bezzi, 1902 .....  | 38.13 |
| <i>gorgon</i> (Fabricius), 1805 (Anthrax), Villa ( <i>Chrysanthrax</i> ) .....                                       | 38.46 |
| <i>goyaz</i> (Macquart), 1840 ( <i>Bombylius</i> ), <i>Euprepina</i> .....   | 38.9  |
| <i>gradata</i> (Macquart), 1847 (Anthrax), Villa .....   | 38.57 |
| <i>griseatus</i> (Hull), 1970 ( <i>Cacoplox</i> ), <i>Dischistus</i> ( <i>Cacoplox</i> ) .....                       | 38.8  |
| <i>guerinii</i> (Macquart), 1846 ( <i>Exoprosopa</i> ), <i>Ligyra</i> .....  | 38.43 |
| <i>guianicus</i> Curran, 1934, Anthrax .....   | 38.32 |
| <i>guttapennis</i> Hall, 1976, Villa (Villa) .....   | 38.54 |
| <i>habrosus</i> Marston, 1970, Anthrax .....   | 38.33 |
| <i>haemorrhoidicum</i> (Loew), 1863 ( <i>Bombylius</i> ), <i>Heterostylum</i> .....                                  | 38.5  |
| <i>halli</i> (Hull), 1965 ( <i>Eclimus</i> ), <i>Thevenemyia</i> .....   | 38.22 |
| <i>Hallidia</i> Hull, 1970 .....   | 38.8  |
| <i>harpyia</i> (Wiedemann), 1828 (Anthrax), <i>Ligyra</i> .....  | 38.43 |
| <i>haywardi</i> Edwards, 1937, <i>Bombylius</i> .....  | 38.3  |
| <i>haywardi</i> (Edwards), 1934 ( <i>Macrocondyla</i> ), <i>Lyophlaeba</i> ( <i>Macro-</i><br><i>condyla</i> ) ..... | 38.28 |
| <i>hedicki</i> (Paramonov), 1930 ( <i>Ogcodocera</i> ), <i>Brachydemia</i> .....                                     | 38.25 |
| <i>hela</i> (Erichson), 1848 (Anthrax), <i>Ligyra</i> .....  | 38.43 |
| <i>helvus</i> Wiedemann, 1821, <i>Bombylius</i> .....  | 38.3  |
| <i>Hemipenthes</i> Loew, 1869 .....  | 38.47 |
| <i>Heniconeura</i> , emend. ....   | 38.20 |
| <i>hesperus</i> Hall, 1976, <i>Lepidanthrax</i> .....  | 38.35 |
| <i>heteroneurus</i> , emend., <i>Triploechus</i> .....   | 38.6  |
| <i>heteronevrus</i> (Macquart), 1859 ( <i>Bombylius</i> ), <i>Triploechus</i> .....                                  | 38.4  |
| <i>Heterostylum</i> Macquart, 1848 .....   | 38.54 |
| <i>hilarii</i> (Macquart), 1840 (Anthrax), Villa (Villa) .....   | 38.46 |
| <i>hircina</i> (Coquillett), 1892 (Anthrax), Villa ( <i>Chrysanthrax</i> ) .....                                     | 38.50 |
| <i>hirsuta</i> (Williston), 1901 (Anthrax), Villa ( <i>Paravilla</i> ) .....   | 38.5  |
| <i>hirsutum</i> (Thunberg), 1827 ( <i>Tanyglossa</i> ), <i>Heterostylum</i> .....                                    | 38.5  |
| <i>histrion</i> (Walker), 1849 ( <i>Bombylius</i> ), <i>Heterostylum</i> .....                                       | 38.17 |
| <i>holosericeus</i> Walker, 1849, <i>Geron</i> .....   | 38.15 |
| <i>homochroma</i> Hall, 1976, <i>Phthiria</i> ( <i>Phthiria</i> ) .....  | 38.2  |
| <i>Hcmoeophthalmae</i> .....   | 38.44 |
| <i>homolos</i> Hall, 1976, <i>Diplocampta</i> .....  | 38.40 |
| <i>hulli</i> Painter, 1930, <i>Exoprosopa</i> .....  | 38.31 |
| <i>hyalacrus</i> Wiedemann, 1828, Anthrax .....  | 38.45 |
| <i>Hyalanthrax</i> Osten Sacken, 1887 .....  | 38.54 |
| <i>hyalinipennis</i> (Blanchard), 1852 (Anthrax), Villa (Villa) .....  | 38.12 |
| <i>hyalinipennis</i> (Brèthes), 1920 ( <i>Heterchybos</i> ), <i>Mythicomyia</i> ....                                 | 38.40 |
| <i>hyalinipennis</i> Cole, 1923, <i>Exoprosopa</i> .....   | 38.35 |
| <i>hyalinipennis</i> Cole, 1923, <i>Lepidanthrax</i> .....   | 38.28 |
| <i>hyalinipennis</i> Hall, 1976, <i>Lyophlaeba</i> ( <i>Macrocondyla</i> ) .....                                     | 38.58 |
| <i>hyalinus</i> (Fabricius), 1805 ( <i>Bombylius</i> ) .....   | 38.59 |
| <i>hyalipennis</i> Macquart, 1846 ( <i>Bombylius</i> ) .....   | 38.32 |
| <i>hylaics</i> Marston, 1970, Anthrax .....  | 38.42 |
| <i>Hyperalonia</i> , authors .....   | 38.58 |
| <i>Hyperalonia</i> Rondani, 1863 .....   | 38.35 |
| <i>hypomelas</i> Hall, 1976, <i>Lepidanthrax</i> .....   |       |

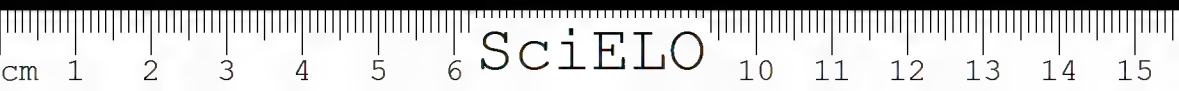
38.81





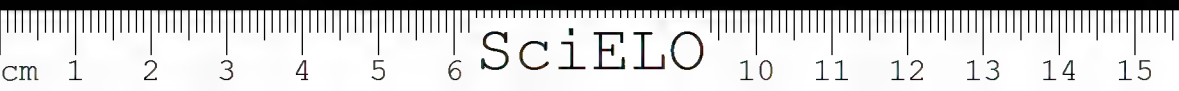
|  |       |
|--|-------|
| hyposcelus Hall, 1976, <i>Lepidanthrax</i> .....   | 38.35 |
| hypoxantha Hall, 1976, <i>Lyophlaeba</i> ( <i>Lyophlaeba</i> ) .....                               | 38.27 |
| hypoxantha (Macquart), 1840 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Thyridanthrax</i> ) .....        | 38.52 |
| igne (Macquart), 1846 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Hemipenthes</i> ) .....                | 38.48 |
| ignifera (Walker), 1849 ( <i>Anthrax</i> ), <i>Exoprosopa</i> .....                                | 38.40 |
| illustris Melander, 1961, <i>Mythicomymia</i> .....  | 38.12 |
| imitans (Schiner), 1868 ( <i>Argyromoeba</i> ), <i>Anthrax</i> .....                               | 38.34 |
| inappendiculatum (Bigot), 1892 ( <i>Spogostylum</i> ), <i>Anthrax</i> .....                        | 38.31 |
| inaquosus Marston, 1970, <i>Anthrax</i> .....  | 38.32 |
| incisa (Walker), 1852 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Hemipenthes</i> ) .....                | 38.48 |
| incisiva Painter, 1962, <i>Villa</i> ( <i>Hemipenthes</i> ) .....                                  | 38.48 |
| indecisus Curran, 1930, <i>Lepidanthrax</i> .....  | 38.35 |
| inecactus Walker, 1857, <i>Anthrax</i> .....   | 38.33 |
| infumata (Philippi), 1865 ( <i>Comptosia</i> ), <i>Lyophlaeba</i> ( <i>Macrocondyla</i> ) .....    | 38.29 |
| ingens Cresson, 1919, <i>Exoprosopa</i> .....  | 38.40 |
| ingens Johnson & Johnson, 1957, <i>Poecilanthrax</i> .....   | 38.38 |
| ingloria (Philippi), 1865 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Exhyalanthrax</i> ) .....          | 38.57 |
| inubilipennis Marston, 1970, <i>Anthrax</i> .....  | 38.32 |
| inordinatus Rondani, 1863, <i>Anthrax</i> .....  | 38.32 |
| insulanus Marston, 1970, <i>Anthrax</i> .....  | 38.32 |
| insularis (Bigot), 1857 ( <i>Bombylius</i> ), <i>Geron</i> .....                                   | 38.17 |
| insularis Cole, 1923, <i>Geron</i> .....   | 38.17 |
| interrupta (Wiedemann), 1828 ( <i>Anthrax</i> ), <i>Exoprosopa</i> .....                           | 38.40 |
| io Williston, 1901, <i>Bombylius</i> .....   | 38.3  |
| ioptera (Wiedemann), 1828 ( <i>Anthrax</i> ), <i>Villa</i> .....                                   | 38.57 |
| iota Osten Sacken, 1886, <i>Exoprosopa</i> .....   | 38.41 |
| irroratus Say, 1823, <i>Anthrax</i> .....  | 38.32 |
| irrupta Melander, 1961, <i>Mythicomymia</i> .....  | 38.12 |
| irwini Hall, 1976, <i>Apolysis</i> .....   | 38.16 |
| irwini Hall, 1976, <i>Sericosoma</i> .....   | 38.11 |
| <i>Isopenthes</i> Osten Sacken, 1886 .....   | 38.47 |
| ixta Hull & Martin, 1974, <i>Neodiplocampta</i> ( <i>Neodiplocampta</i> ) .....                    | 38.37 |
| jaennickeana (Osten Sacken), 1886 ( <i>Isopenthes</i> ), <i>Villa</i> ( <i>Hemipenthes</i> ) ..... | 38.50 |
| junceus Coquillett, 1891, <i>Lordotus</i> .....  | 38.6  |
| junctura (Coquillett), 1887 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Chrysanthrax</i> ) .....         | 38.46 |
| kaupii (Jaennicke), 1867 ( <i>Exoprosopa</i> ), <i>Ligyra</i> .....                                | 38.43 |
| klugii (Wiedemann), 1830 ( <i>Anthrax</i> ), <i>Ligyra</i> .....                                   | 38.43 |
| knutsoni Hull, 1971, <i>Euprepina</i> .....  | 38.9  |
| koslowskyi (Edwards), 1930 ( <i>Ligyra</i> ), <i>Lyophlaeba</i> ( <i>Lyophlaeba</i> ) .....        | 38.27 |
| krombeini Hull & Martin, 1974, <i>Neodiplocampta</i> ( <i>Neodiplocampta</i> ) .....               | 38.37 |
| lacera (Wiedemann), 1830 ( <i>Anthrax</i> ), <i>Stonyx</i> .....                                   | 38.34 |
| lanata Edwards, 1930, <i>Mallophthiria</i> .....   | 38.10 |
| lanata Edwards, 1937, <i>Sericusia</i> .....   | 38.9  |
| landbecki Philippi, 1865, <i>Bombylius</i> ( <i>Parasystoechus</i> ) .....                         | 38.3  |
| landbecki (Philippi), 1865 ( <i>Comptosia</i> ), <i>Lyophlaeba</i> ( <i>Lyophlaeba</i> ) .....     | 38.28 |
| lanei Carrera & d'Andretta, 1950, <i>Systropus</i> .....   | 38.19 |
| lateralis (Rondani), 1868 ( <i>Mulio</i> ), <i>Cytherea</i> .....                                  | 38.11 |

|  |       |
|--|-------|
| <i>lateralis</i> (Say), 1823 (Anthrax), Villa (Villa) .....                  | 38.54 |
| <i>lateralis</i> (Thomson), 1869 (Anthrax), Villa (Hemipenthes) .....        | 38.48 |
| <i>latibasis</i> Marston, 1970, Anthrax .....                                | 38.32 |
| <i>latifimbria</i> (Walker), 1852 (Anthrax), Villa .....                     | 38.57 |
| <i>latisoma</i> (Hull), 1973 (Bryodemina), Brachydemia .....                 | 38.25 |
| <i>latreillei</i> (Wiedemann), 1830 (Anthrax), Ligyra .....                  | 38.43 |
| <i>laurella</i> Hull & Martin, 1974, Neodiplocampta (Neodiplocampta) .....   | 38.37 |
| <i>lelia</i> Williston, 1901, Stonyx .....                                   | 38.34 |
| <i>lemniscata</i> (Philippi), 1865 (Anthrax), Villa (Hemipenthes) ....       | 38.48 |
| <i>leon</i> Painter, 1969, Exoprosopa .....                                  | 38.41 |
| <i>lepida</i> Painter, 1969, Exoprosopa .....                                | 38.41 |
| <i>Lepidanthrax</i> Osten Sacken, 1886 .....                                 | 38.34 |
| <i>lepidocera</i> (d'Andretta & Carrera), 1950 (Eniconeura), Toxophora ..... | 38.21 |
| <i>Lepidophora</i> Westwood, 1835 .....                                      | 38.21 |
| <i>lepidota</i> (Osten Sacken), 1887 (Anthrax), Villa (Hemipenthes) .....    | 38.48 |
| <i>Leptochilus</i> Loew, 1872 .....  | 38.26 |
| <i>leucocephala</i> (Wulp), 1882 (Anthrax), Villa (Hemipenthes) ....         | 38.49 |
| <i>leucomalla</i> (Philippi), 1865 (Anthrax), Villa (Exhyalanthrax) .....    | 38.57 |
| <i>leucon</i> Séguy, 1939, Toxophora .....                                   | 38.21 |
| <i>leucoprocta</i> (Wiedemann), 1828 (Mulio), Ogcodocera .....               | 38.24 |
| <i>leucopyga</i> Macquart, 1855, Anthrax .....                               | 38.32 |
| <i>leucotelus</i> (Walker), 1852 (Anthrax), Ogcodocera .....                 | 38.24 |
| <i>leucothoa</i> (Wiedemann), 1830 (Anthrax), Villa (Paravilla) .....        | 38.51 |
| <i>lherminieri</i> (Macquart), 1840 (Bombylius), Sparnopolius .....          | 38.7  |
| <i>Ligyra</i> , authors .....  | 38.27 |
| <i>Ligyra</i> Newman, 1841 .....   | 38.42 |
| <i>limbipennis</i> Macquart, 1846, Exoprosopa .....                          | 38.39 |
| <i>lineata</i> (Walker), 1857 (Anthrax), Villa (Villa) .....                 | 38.55 |
| <i>litoralis</i> Hall, 1976, Villa (Chrysanthrax) .....                      | 38.46 |
| <i>litoralis</i> Painter, 1932, Geron .....                                  | 38.17 |
| <i>litus</i> Hall, 1976, Lepidanthrax .....                                  | 38.35 |
| <i>livia</i> (Osten Sacken), 1887 (Anthrax), Villa (Villa) .....             | 38.55 |
| <i>Lomatinae</i> .....   | 38.24 |
| <i>Lordotus</i> Loew, 1863 .....   | 38.6  |
| <i>lucifer</i> (Fabricius), 1775 (Bibio), Poecilanthrax .....                | 38.38 |
| <i>luctifera</i> (Osten Sacken), 1877 (Epibates), Thevenemyia .....          | 38.22 |
| <i>luctuosus</i> Macquart, 1840, Anthrax .....                               | 38.32 |
| <i>lugubris</i> Osten Sacken, 1887, Systropus .....                          | 38.19 |
| <i>lugubris</i> (Philippi), 1865 (Comptosia), Lyophlaeba .....               | 38.28 |
| <i>lugubris</i> Rondani, 1863, Lyophlaeba (Lyophlaeba) .....                 | 38.28 |
| <i>lurida</i> Walker, 1857, Phthiria (Phthiria) .....                        | 38.15 |
| <i>lurida</i> (Walker), 1857 (Anthrax), Walkeromyia .....                    | 38.44 |
| <i>lutzi</i> Curran, 1930, Lepidanthrax .....                                | 38.35 |
| <i>Lyophlaeba</i> Rondani, 1863 .....  | 38.27 |
| <i>macquarti</i> d'Andretta & Carrera, 1952, Anthrax .....                   | 38.32 |
| <i>macra</i> Hall, 1976, Mythicomyia .....                                   | 38.12 |
| <i>Macrocondyla</i> , authors .....  | 38.27 |
| <i>Macrocondyla</i> Rondani, 1863 .....                                      | 38.28 |
| <i>macrostoma</i> Hall, 1976, Phthiria (Megaphthiria) .....                  | 38.15 |
| <i>macula</i> (Cole), 1919 (Anthrax), Villa (Thyridanthrax) .....            | 38.52 |
| <i>maculatus</i> Hall, 1976, Dischistus (Dischistus) .....                   | 38.7  |
| <i>maculipennis</i> (Hull), 1965 (Eclimus), Thevenemyia .....                | 38.22 |



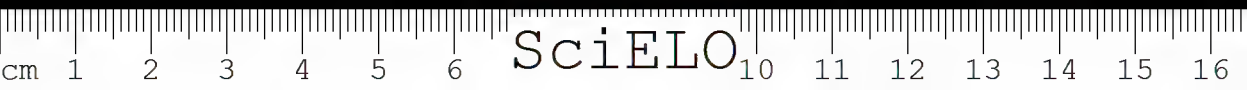
|   |       |
|---|-------|
| <i>maimon</i> (Fabricius), 1805 (Anthrax), Villa (Chrysanthrax) ....                            | 38.46 |
| <i>muldonadensis</i> (Macquart), 1850 (Exoprosopa), Villa (Hemipenthes) .....                   | 38.48 |
| <i>Mallophthiria</i> Edwards, 1930 .....  | 38.10 |
| <i>manca</i> (Edwards), 1934 (Macrocondyla), <i>Lyophlaeba</i> (Macrocondyla) .....             | 38.29 |
| <i>maracajula</i> Hull, 1971, <i>Euprepina</i> .....  | 38.9  |
| <i>marginalis</i> (Rondani), 1868 (Mulio), <i>Cytherea</i> .....                                | 38.11 |
| <i>marginata</i> (Osten Sacken), 1877 (Epibates), <i>Thevenemyia</i> .....                      | 38.23 |
| <i>marginatus</i> Cole, 1923, <i>Aphoebantus</i> .....  | 38.26 |
| <i>maria</i> (Williston), 1901 (Anthrax), Villa (Rhynchanthrax) .....                           | 38.51 |
| <i>marnefi</i> Hall, 1976, <i>Diplocampta</i> .....   | 38.44 |
| <i>mars</i> Curran, 1942, <i>Systropus</i> .....  | 38.19 |
| <i>martinorum</i> Painter, 1962, Villa (Hemipenthes) .....                                      | 38.49 |
| <i>maxima</i> Coquillett, 1886, <i>Toxophora</i> .....  | 38.21 |
| <i>Megaphthiria</i> Hall, 1976 .....  | 38.14 |
| <i>melaleuca</i> (Wiedemann), 1828 (Anthrax), Villa (Hemipenthes) .....                         | 38.49 |
| <i>melaleuca</i> Wiedemann of Lynch Arribálzaga, 1878, Villa .....                              | 38.57 |
| <i>melampogon</i> (Philippi), 1865 (Bombylius), <i>Dischistus</i> (Dischistus) .....            | 38.8  |
| <i>melania</i> Hall, 1976, <i>Mythicomyia</i> .....   | 38.12 |
| <i>melanogaster</i> (Bigot), 1892 (Anthrax), <i>Aphoebantus</i> .....                           | 38.26 |
| <i>melanosus</i> (Williston), 1893 (Eclimus), <i>Thevenemyia</i> .....                          | 38.23 |
| <i>melanothrix</i> Hall, 1973, <i>Lyophlaeba</i> (Lyophlaeba) .....                             | 38.28 |
| <i>melia</i> Williston, 1901, <i>Stonyx</i> .....   | 38.34 |
| <i>mendozana</i> Brèthes, 1909, Anthrax .....   | 38.32 |
| <i>mercedis</i> (Coquillett), 1887 (Anthrax), Villa (Paravilla) .....                           | 38.51 |
| <i>meridionalis</i> Cole, 1923, Villa (Thyridanthrax) .....                                     | 38.52 |
| <i>mesomelas</i> Wiedemann, 1830, <i>Bombylius</i> .....  | 38.2  |
| <i>Metacosmus</i> Coquillett, 1891 .....  | 38.23 |
| <i>mexicanus</i> Cole, 1957, Anthrax .....  | 38.32 |
| <i>mexicanus</i> Painter, 1969, <i>Poecilanthrax</i> .....                                      | 38.38 |
| <i>mexicanus</i> Wiedemann, 1821, <i>Bombylius</i> .....  | 38.3  |
| <i>mexomelas</i> (Bigot), 1892 (Anthrax), Villa (Hemipenthes) .....                             | 38.49 |
| <i>micropygus</i> Melander, 1950, <i>Aphoebantus</i> .....                                      | 38.26 |
| <i>midas</i> Fabricius, 1805, Anthrax .....   | 38.32 |
| <i>minas</i> (Macquart), 1848 (Anthrax), Villa (Hemipenthes) .....                              | 38.49 |
| <i>minerva</i> (Wiedemann), 1828 (Anthrax), Villa (Villa) .....                                 | 38.55 |
| <i>miniata</i> Oldroyd, 1938, Villa .....   | 38.57 |
| <i>minimaculatus</i> Oldroyd, 1937, Anthrax .....   | 38.32 |
| <i>minor</i> Edwards, 1937, <i>Triploechus</i> .....  | 38.5  |
| <i>minor</i> Melander, 1961, <i>Mythicomyia</i> .....   | 38.12 |
| <i>minuscula</i> Painter, 1969, <i>Exoprosopa</i> .....   | 38.41 |
| <i>minuta</i> Paramonov, 1931, <i>Lyophlaeba</i> .....  | 38.27 |
| <i>mira</i> (Coquillett), 1887 (Anthrax), <i>Neodiplocampta</i> ( <i>Neodiplocampta</i> ) ..... | 38.37 |
| <i>miscella</i> (Coquillett), 1887 (Anthrax), Villa (Villa) .....                               | 38.55 |
| <i>mixteca</i> Painter, 1962, <i>Phthiria</i> ( <i>Phthiria</i> ) .....                         | 38.15 |
| <i>modesta</i> Melander, 1961, <i>Mythicomyia</i> .....   | 38.12 |
| <i>modestus</i> (Loew), 1872 ( <i>Leptochilus</i> ), <i>Epacmus</i> .....                       | 38.26 |
| <i>moerens</i> (Philippi), 1865 (Anthrax), Villa (Villa) .....                                  | 38.55 |
| <i>molitor</i> (Loew), 1869 (Anthrax), Villa (Villa) .....                                      | 38.55 |
| <i>moneta</i> (Osten Sacken), 1887 (Anthrax), Villa (Villa) ...                                 | 38.55 |

|   |       |
|---|-------|
| montana (Philippi), 1865 (Comptosia), Lyophlaeba (Macrocondyla) .....         | 38.29 |
| morio (Fabricius), 1775 (Stomoxys), Hyperalonia .....                         | 38.58 |
| morna Curran, 1930, Lepidanthrax .....  | 38.35 |
| morphnus Hall, 1976, Lepidanthrax .....                                       | 38.35 |
| morrisoni Osten Sacken, 1887, Paracosmus .....                                | 38.23 |
| Mulio Latreille, 1796 .....   | 38.11 |
| multicolor (Bigot), 1892 (Glossista), Villa (Chrysanthrax) .....              | 38.46 |
| murina (Philippi), 1865 (Anthrax), Villa (Thyridanthrax) .....                | 38.52 |
| mus Curran, 1930, Exoprosopa .....  | 38.41 |
| mus (Osten Sacken), 1877 (Triodites), Aphoebantus .....                       | 38.26 |
| mutua (Walker), 1849 (Anthrax), Villa (Villa) .....                           | 38.55 |
| mystaceus (Macquart), 1840 (Spogostylum), Anthrax .....                       | 38.32 |
| Mythicomyia Coquillett, 1893 .....  | 38.11 |
| Mythicomyiinae .....  | 38.11 |
| Neacreotrichus Cockerell, 1917 .....  | 38.14 |
| Nectaropota Philippi, 1865 .....  | 38.8  |
| Neodiplocampta Curran, 1934 .....   | 38.36 |
| Neodischistus Painter, 1933 .....   | 38.10 |
| nero (Fabricius), 1805 (Anthrax), Villa (Chrysanthrax) .....                  | 38.46 |
| niger Cresson, 1923, Lordotus .....   | 38.6  |
| niger Walker, 1849, Systropus .....   | 38.18 |
| nigra Wiedemann, 1830, Dolichomyia .....                                      | 38.20 |
| nigricornis (Philippi), 1865 (Bombylius), Dischistus (Dischistus) .....       | 38.8  |
| nigricosta (Schiner), 1868 (Anthrax), Villa (Villa) .....                     | 38.55 |
| nigripes Painter, 1963, Systropus .....                                       | 38.19 |
| nigrita (Wiedemann), 1828 (Anthrax), Villa .....                              | 38.57 |
| nigriventris Marston, 1970, Anthrax .....                                     | 38.33 |
| nigrocrura Hall, 1976, Villa (Exhyalanthrax) .....                            | 38.57 |
| nigrofemoratus Painter, 1940, Parabombylius .....                             | 38.4  |
| nigrofibriata (Williston), 1901 (Anthrax), Villa (Rhynchanthrax) .....        | 38.52 |
| nigroventris Painter, 1969, Exoprosopa .....                                  | 38.41 |
| nitida Cole, 1922, Villa (Villa) .....  | 38.55 |
| nitidus Wiedemann, 1830, Systropus .....                                      | 38.19 |
| nivea Cole, 1923, Villa (Chrysanthrax) .....                                  | 38.47 |
| niveoides Cole, 1923, Geron .....   | 38.17 |
| nubifera Loew, 1869, Exoprosopa .....   | 38.41 |
| nuda Hull, 1971, Euprepina .....  | 38.9  |
| nudiuscula (Thomson), 1869 (Anthrax), Villa (Hemipenthes) ....                | 38.49 |
| obliqua (Macquart), 1834 (Anthrax), Villa (Villa) .....                       | 38.55 |
| obscuripes (Bigot), 1892 (Anthrax), Villa (Villa) .....                       | 38.56 |
| obsoleta Fabricius of Coquillett, 1894 (Argyramoeba), Anthrax, misident. .... | 38.30 |
| obtectus Melander, 1950, Aphoebantus .....                                    | 38.26 |
| occidentalis (Johnson), 1913 (Spongostylum), Anthrax .....                    | 38.30 |
| ochraceus Bigot, 1892, Bombylius .....  | 38.3  |
| oedipus Fabricius, 1805, Anthrax .....  | 38.33 |
| Oestrimyza Hull, 1973 .....   | 38.58 |
| Ogcodocera Macquart, 1840 .....   | 38.24 |
| oldroydi Carrera & d'Andretta, 1950, Systropus .....                          | 38.19 |
| oldroydi Hall, 1976, Villa (Hemipenthes) .....                                | 38.49 |

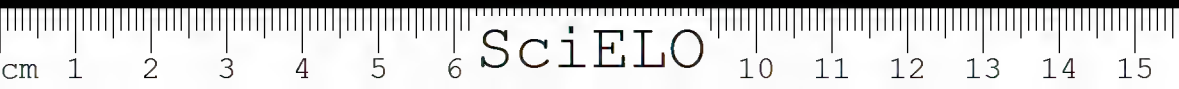




|  |       |
|--|-------|
| Oligodranes Loew, 1844 .....   | 38.16 |
| olmeca Painter, 1962, Phthiria (Phthiria) .....                                  | 38.15 |
| Oncodocera, authors .....  | 38.24 |
| Oncodocera, emend. ....  | 38.24 |
| orbitalis (Williston), 1901 (Anthrax), Villa (Hemipenthes) .....                 | 38.49 |
| orcus (Walker), 1849 (Anthrax), Ligyra .....                                     | 38.43 |
| ornatula Melander, 1961, Mythicomys .....  | 38.12 |
| ornatus (Rondani), 1863 (Bombylius), Triploechns .....                           | 38.6  |
| orthis Hall, 1976, Mythicomys .....  | 38.12 |
| Ostentator Jaennicke, 1867 .....   | 38.2  |
| otiosa (Coquillett), 1887 (Anthrax), Villa (Thyridanthrax) .....                 | 38.52 |
| ovatus Hall, 1976, Bombylius (Semistochus) .....                                 | 38.3  |
| <i>Pachyneres</i> Grene, 1924 .....  | 38.13 |
| painteri Hull & Martin, 1974, Neodiplocampta (Nediplocampta) .....               | 38.37 |
| painterorum Hall, 1976, Lepidanthrax .....                                       | 38.35 |
| painterorum Hall, 1969, Thevenemyia .....  | 38.23 |
| pallata (Loew), 1869 (Anthrax), Villa (Paravilla) .....                          | 38.51 |
| pallida d'Andretta & Carrera, 1950, Toxophora .....                              | 38.21 |
| pallipennis Paramonov, 1940, Lyophlaeba (Lyophlaeba) .....                       | 38.28 |
| pallipes Bigot, 1892, Heterostylum .....   | 38.5  |
| pallipes (Bigot), 1892 (Anthrax), Villa (Villa) .....                            | 38.55 |
| pallipes Edwards, 1937, Triploechns .....  | 38.6  |
| paloides Painter, 1963, Systropus .....  | 38.19 |
| panamensis Curran, 1930, Exoprosopa .....  | 38.41 |
| panamensis Curran, 1930, Lepidanthrax .....                                      | 38.35 |
| Pantarbes Osten Sacken, 1877 .....   | 38.10 |
| parabifasciata Paramonov, 1940, Lyophlaeba .....                                 | 38.27 |
| Parabombylius Williston, 1907 .....  | 38.4  |
| Paracosmus Osten Sacken, 1877 .....  | 38.23 |
| paradoxa (Jaennicke), 1867 (Anthrax), Neodiplocampta (Neodiplo-<br>campta) ..... | 38.37 |
| Paranthrax Bigot, 1876 .....   | 38.50 |
| Parasystoechns Hall, 1976 .....  | 38.2  |
| Paravilla Painter 1933 .....   | 38.50 |
| parda Osten Sacken, 1886, Exoprosopa .....                                       | 38.41 |
| parva Loew, 1869 (Exoprosopa), Neodiplocampta (Neodiplocamta) .....              | 38.37 |
| parva (Loew), 1869 (Exoprosopa), Neodiplocampta (Neodiplo-<br>campta) .....      | 38.37 |
| paulseni (Philippi), 1865 (Bombylius), Acrophthalmyda .....                      | 38.2  |
| pavida Williston, 1901, Exoprosopa .....   | 38.41 |
| pavidus Coquillett, 1886, Aphoebantus .....                                      | 38.26 |
| pegasus (Wiedemann), 1828 (Anthrax), Ylasoia .....                               | 38.29 |
| pellucida Coquillett, 1896, Toxophora .....                                      | 38.21 |
| pellucidus (Coquillett), 1892 (Epacmus), Aphoebantus .....                       | 38.26 |
| penai Hall, 1976, Lyophlaeba (Lyophlaeba) .....                                  | 38.28 |
| penai Hall, 1976, Villa (Villa) .....  | 38.55 |
| peninsularis Cole, 1923, Villa .....   | 38.57 |
| peodes Osten Sacken, 1887, Aphoebantus .....                                     | 38.26 |
| peridema Hall, 1973, Lyophlaeba (Lyophlaeba) .....                               | 38.28 |
| perimele (Wiedemann), 1828 (Anthrax), Villa (Villa) .....                        | 38.55 |
| periphanus Hall, 1976, Lepidanthrax .....  | 38.36 |
| peristigus Hall, 1976, Lepidanthrax .....  | 38.36 |



|  |       |
|--|-------|
| <i>perplexa</i> (Coquillett), 1887 (Anthrax), Villa (Paravilla) .....              | 38.51 |
| <i>peruvianus</i> Marston, 1970, Anthrax .....                                     | 38.33 |
| <i>philadelphicus</i> Macquart, 1840, Bombylius .....                              | 38.3  |
| <i>philippiana</i> Rondani, 1863 (Phtyria), Phthiria (Poecilognathus) .....        | 38.15 |
| <i>philippii</i> Paramonov, 1931, Lyophlaeba (Lyophlaeba) .....                    | 38.28 |
| <i>philippii</i> (Rondani), 1863 (Anthrax), Villa (Chrysanthrax) .....             | 38.47 |
| <i>phlegeton</i> (Walker), 1849 (Anthrax), Ligyra .....                            | 38.43 |
| <i>photinus</i> Hall, 1976, Lepidanthrax .....                                     | 38.36 |
| <i>Phthiria</i> Meigen, 1803 .....   | 38.13 |
| <i>Phthiriinae</i> .....   | 38.13 |
| <i>picta</i> Philippi, 1865, Phthiria .....  | 38.15 |
| <i>pictinervis</i> (Rondani), 1863 (Macrocondyla), Lyophlaeba (Macrocondyla) ..... | 38.29 |
| <i>pictipennis</i> (Bigot), 1857 (Cyrtophorus), Cyrtomyia .....                    | 38.22 |
| <i>pilatei</i> (Macquart), 1846 (Exoprosopa), Ligyra .....                         | 38.44 |
| <i>pima</i> Painter, 1962, Villa (Hemipenthes) .....                               | 38.49 |
| <i>pirioni</i> Edwards, 1937, Phthiria (Megaphthiria) .....                        | 38.15 |
| <i>plagosa</i> (Coquillett), 1887 (Anthrax), Villa (Rhynchanthrax) ....            | 38.52 |
| <i>Platamodes</i> Loew, 1855 .....   | 38.8  |
| <i>Platamomyia</i> Brèthes, 1925 .....   | 38.8  |
| <i>Platygaster</i> Zetterstedt, 1838 .....   | 38.13 |
| <i>platypteron</i> Hall, 1976, Diplocampta .....                                   | 38.44 |
| <i>pleuralis</i> (Williston), 1901 (Anthrax), Villa (Hemipenthes) .....            | 38.49 |
| <i>Ploas</i> Latreille, 1804 .....   | 38.7  |
| <i>plumipes</i> Drury, 1773 (Bombylius) .....                                      | 38.59 |
| <i>plumipes</i> (Philippi), 1873 (Anthrax), Walkeromyia .....                      | 38.44 |
| <i>plumipilosa</i> Hull, 1970, Hallidia .....                                      | 38.8  |
| <i>pluricellus</i> Williston, 1901, Anthrax .....                                  | 38.33 |
| <i>plurinotus</i> (Bigot), 1892 (Argyromoeba), Anthrax .....                       | 38.33 |
| <i>Podolepida</i> Hull, 1973 .....   | 38.34 |
| <i>Poecilanthrax</i> Osten Sacken, 1886 .....                                      | 38.37 |
| <i>poecilogaster</i> (Osten Sacken), 1886 (Anthrax), Poecilanthrax ....            | 38.38 |
| <i>Poecilognathus</i> Jaennicke, 1867 .....  | 38.14 |
| <i>poecilophora</i> (Schiner), 1868 (Argyromoeba), Anthrax .....                   | 38.32 |
| <i>poliodes</i> Hall, 1976, Phthiria (Megaphthiria) .....                          | 38.15 |
| <i>porteri</i> Oldroyd, 1938, Villa (Hemipenthes) .....                            | 38.50 |
| <i>praeterita</i> Oldroyd, 1938, Villa (Exhyalanthrax) .....                       | 38.57 |
| <i>pravipes</i> Melander, 1961, Mythicomomyia .....                                | 38.12 |
| <i>primitiva</i> (Walker), 1849 (Anthrax), Villa (Chrysanthrax) ....               | 38.47 |
| <i>problis</i> Hall, 1976, Mythicomomyia .....                                     | 38.12 |
| <i>proboscideus</i> (Loew), 1869 (Anthrax), Lepidanthrax .....                     | 38.36 |
| <i>procedens</i> (Walker), 1852 (Anthrax), Villa (Chrysanthrax) ....               | 38.47 |
| <i>procne</i> Osten Sacken, 1886, Exoprosopa .....                                 | 38.41 |
| <i>prometheus</i> (Macquart), 1855 (Exoprosopa), Ligyra .....                      | 38.44 |
| <i>propinqua</i> (Schiner), 1868 (Argyromoeba), Anthrax .....                      | 38.31 |
| <i>proserpina</i> (Wiedemann), 1828 (Anthrax), Ligyra .....                        | 38.44 |
| <i>proxima</i> Hall, 1976, Villa (Villa) .....                                     | 38.55 |
| <i>pruinosa</i> Melander, 1961, Mythicomomyia .....                                | 38.12 |
| <i>psammia</i> Cole, 1960, Villa (Villa) .....                                     | 38.56 |
| <i>Pseudogeron</i> Cresson, 1915 .....   | 38.16 |
| <i>pubipes</i> Edwards, 1937, Sericosoma .....                                     | 38.11 |
| <i>pudica</i> (Lynch Arribáizaga), 1878 (Anthrax), Villa .....                     | 38.57 |
| <i>pueblensis</i> Jaennicke, 1867, Exoprosopa .....                                | 38.41 |



|   |       |
|---|-------|
| <i>pulchella</i> Williston, 1901, Phthiria (Phthiria) .....                             | 38.15 |
| <i>pulcher</i> Williston, 1901, Systropus .....   | 38.19 |
| <i>pulchrissimus</i> Williston, 1893, Lordotus .....                                    | 38.6  |
| <i>punctata</i> (Macquart), 1850 (Exoprosopa), Anthrax .....                            | 38.33 |
| <i>punctipennis</i> (Jaennicke), 1867 (Ostentator), Acrophthalmyda .....                | 38.2  |
| <i>punctum</i> Walker, 1850, Anthrax .....  | 38.33 |
| <i>pusillima</i> Edwards, 1930, Mythicomya .....  | 38.12 |
| <i>pusio</i> (Macquart), 1840 (Anthrax), Villa (Villa) .....                            | 38.56 |
| <i>pusio</i> Osten Sacken, 1887, Pantarbes .....  | 38.10 |
| <i>pusio</i> (Philippi), 1865 (Anthrax), Villa (Exhyalanthrax) .....                    | 38.57 |
| <i>pygmaeus</i> (Cole), 1923 (Rhabdopselaphus), Apolysis .....                          | 38.16 |
| <i>quadrata</i> (Williston), 1901 (Eclimus), Thevenemyia .....                          | 38.23 |
| <i>quadrincta</i> (Philippi), 1865 (Anthrax), Villa (Villa) .....                       | 38.53 |
| <i>quadrincta</i> (Rondani), 1863 (Anthrax), Villa (Villa) .....                        | 38.56 |
| <i>quadripunctata</i> Cole, 1923, Villa (Chrysanthrax) .....                            | 38.47 |
| <i>quadripunctatus</i> Williston, 1901, Systropus .....                                 | 38.19 |
| <i>quebradae</i> Hall, 1976, Apolysis .....   | 38.16 |
| <i>quebradae</i> Hall, 1976, Glabellula .....   | 38.13 |
| <i>quinquepunctatus</i> (Thomson), 1869 (Anthrax), Lepidanthrax .....                   | 38.36 |
| <i>quivera</i> Painter, 1933, Villa (Rhynchanthrax) .....                               | 38.52 |
| <i>rauchi</i> Hall, 1976, Lepidanthrax .....  | 38.36 |
| <i>ravus</i> Loew, 1863, Bombylius .....  | 38.3  |
| <i>ravus</i> Painter, 1933, Villa (Chrysanthrax) .....                                  | 38.47 |
| <i>recta</i> (Walker), 1852 (Anthrax), Villa (Chrysanthrax) .....                       | 38.45 |
| <i>repertus</i> Carrera & d'Andretta, 1850, Systropus .....                             | 38.19 |
| <i>repertus</i> Walker, 1852, Anthrax .....   | 38.33 |
| <i>restituta</i> (Walker), 1852 (Anthrax), Villa (Chrysanthrax) .....                   | 38.47 |
| <i>rex</i> (Osten Sacken), 1886 (Anthrax), Villa (Rhynchanthrax) .....                  | 38.52 |
| <i>Rhabdopselaphus</i> Bigot, 1886 .....  | 38.16 |
| <i>rhaeba</i> Melander, 1961, Mythicomya .....  | 38.13 |
| <i>Rhynchanthrax</i> Painter, 1933 .....  | 38.51 |
| <i>rileyi</i> Coquillett, 1893, Mythicomya .....  | 38.13 |
| <i>robustum</i> (Osten Sacken), 1877 (Comastes), Heterostylum .....                     | 38.5  |
| <i>robustus</i> Johnson & Johnson, 1957, Poecilanthrax .....                            | 38.38 |
| <i>roederi</i> (Curran), 1931 (Diplocampta), Neodiplocampta (Neodiplo-<br>campta) ..... | 38.37 |
| <i>rogersi</i> Osten Sacken, 1887, Systropus .....                                      | 38.19 |
| <i>rossi</i> Hall, 1976, Sericosoma .....   | 38.11 |
| <i>rostrifera</i> Jaennicke, 1867, Exoprosopa .....                                     | 38.41 |
| <i>rufa</i> Painter, 1962, Exoprosopa .....   | 38.41 |
| <i>rufescens</i> (Walker), 1849 (Anthrax), Ligyra .....                                 | 38.44 |
| <i>ruficollis</i> (Bigot), 1892 (Anthrax), Villa (Hemipenthes) .....                    | 38.49 |
| <i>rufipes</i> Macquart, 1846, Geron .....  | 38.17 |
| <i>rufiventris</i> (Blanchard), 1852 (Anthrax), Villa (Paranthrax) .....                | 38.50 |
| <i>rufiventris</i> Osten Sacken, 1887, Systropus .....                                  | 38.19 |
| <i>rufoanalis</i> Macquart, 1850, Bombylius .....                                       | 38.3  |
| <i>rufum</i> (Olivier), 1789 (Bombylius), Heterostylum .....                            | 38.5  |
| <i>ruizi</i> Edwards, 1937, Bombylius (Bombylius) .....                                 | 38.3  |
| <i>sabina</i> (Osten Sacken), 1887 (Anthrax), Villa (Villa) .....                       | 38.56 |
| <i>sabulosa</i> (Coquillett), 1892 (Anthrax), Villa (Chrysanthrax) .....                | 38.46 |

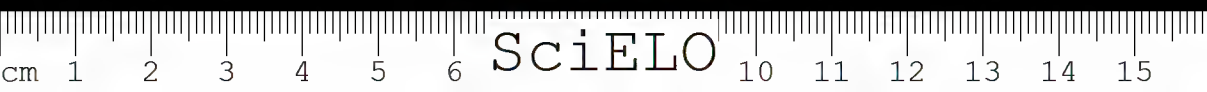
|  |       |
|--|-------|
| sackeni Williston, 1901, Exoprosopa .....                            | 38.41 |
| sackeniana (Williston), 1901 (Anthrax), Villa (Chrysanthrax) ....    | 38.47 |
| sagata (Loew), 1869 (Anthrax), Villa (Hemipenthes) .....             | 38.49 |
| sallei Costa, 1865 (Sistropus), Systropus .....                      | 38.19 |
| salvadorensis Hall, 1976, Lepidanthrax .....                         | 38.36 |
| sanctipauli Macquart, 1840, Exoprosopa .....                         | 38.41 |
| sapphirina Hull, 1971, Deusopora .....                               | 38.58 |
| schlingeri Hall, 1976, Metacosmus .....                              | 38.23 |
| Scinax Loew, 1855 .....  | 38.2  |
| scutellata Coquillett, 1903, Mythicomylia .....                      | 38.13 |
| scylla (Osten Sacken), 1887 (Anthrax), Villa (Hemipenthes) ....      | 38.49 |
| secunda Paramonov, 1931, Diplocampta .....                           | 38.45 |
| secutor Walker, 1857, Lepidophora .....                              | 38.21 |
| sejungenda (Rondani), 1863 (Anthrax), Villa (Villa) .....            | 38.56 |
| sylene (Osten Sacken), 1886 (Anthrax), Villa (Thyridanthrax) ...     | 38.52 |
| semialbus Painter, 1963, Systropus .....                             | 38.19 |
| semicinctus (Bigot), 1892 (Glossista), Villa (Thyridanthrax), lapsus | 38.52 |
| semifucata Hall, 1976, Villa (Hemipenthes) .....                     | 38.49 |
| semifulvipes Painter, 1962, Villa (Villa) .....                      | 38.55 |
| semilugens (Philippi), 1865 (Anthrax), Villa (Chrysanthrax) ....     | 38.47 |
| semirufus (Loew), 1872 (Bombylius), Heterostylum .....               | 38.5  |
| Semistochus Hall, 1976 .....   | 38.2  |
| semitincta (Schiner), 1868 (Anthrax), Villa (Thyridanthrax) ....     | 38.52 |
| semitristis (Philippi), 1865 (Anthrax), Villa (Thyridanthrax) ....   | 38.52 |
| seniculus Philippi, 1865, Bombylius (Parasystoechus) .....           | 38.3  |
| senilis (Fabricius), 1794 (Bombylius), Geron .....                   | 38.17 |
| senilis Fabricius of Wiedemann, 1821, Sparnopolius, misident. ....   | 38.7  |
| sepie Hull, 1966, Neodiplocampta (Agitonia) .....                    | 38.37 |
| Sericosoma Macquart, 1850 .....                                      | 38.10 |
| Sericothrix Hall, 1976 .....   | 38.10 |
| Sericusia Edwards, 1937 .....  | 38.9  |
| seriepunctatus (Osten Sacken), 1887 (Argyramoeba), Anthrax ....      | 38.33 |
| serpentina Osten Sacken, 1877, Dipalta .....                         | 38.36 |
| servillei (Macquart), 1840 (Exoprosopa), Ligyra .....                | 38.42 |
| setigera Philippi, 1865, Nectaropota .....                           | 38.8  |
| setosa Paramonov, 1940, Lyophlaeba (Lyophlaeba) .....                | 38.28 |
| shannoni Hull, 1971, Euprepina .....                                 | 38.9  |
| similis Williston, 1901, Systropus .....                             | 38.19 |
| simson Fabricius, 1805, Anthrax .....                                | 38.33 |
| singularis Schiner, 1863, Diplocampta .....                          | 38.44 |
| sini Cole, 1923, Villa (Thyridanthrax) .....                         | 38.53 |
| sccia Osten Sacken, 1886, Exoprosopa .....                           | 38.41 |
| sola Painter, 1939, Exoprosopa .....                                 | 38.42 |
| solita (Walker), 1857 (Anthrax), Villa .....                         | 38.57 |
| sonorensis Cole, 1923, Villa (Villa) .....                           | 38.56 |
| sonorensis Hall, 1976, Lepidanthrax .....                            | 38.36 |
| sordida Loew, 1869, Exoprosopa .....                                 | 38.42 |
| sororia Williston, 1901, Phthiria .....                              | 38.15 |
| sp. Hennig, 1972, Glabellula .....                                   | 38.13 |
| sp., Sericosoma .....  | 38.11 |
| spadix Painter, 1933, Exoprosopa .....                               | 38.42 |
| Sparnopolius Loew, 1855 .....  | 38.7  |
| sphenoptera Bigot, 1858, Acrophthalmyda, misspell. ....              | 38.2  |



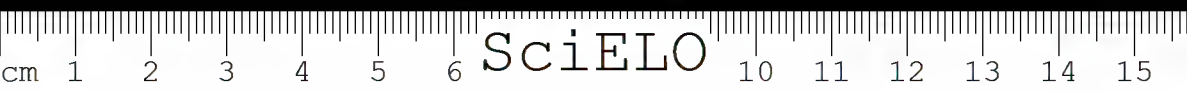
|   |       |
|---|-------|
| <i>Sphaerogaster</i> Zetterstedt, 1842 .....  | 38.13 |
| <i>Sphenoidoptera</i> Williston, 1901 .....   | 38.23 |
| sphenoptera (Loew), 1855 (Scinax), Acrophthalmyda .....                             | 38.2  |
| spiloptera (Wiedemann), 1828 (Anthrax), Neodiplocampta (Neodiplocampta) .....       | 38.37 |
| <i>Spogostylum</i> Macquart, 1840 .....   | 38.29 |
| <i>Spogostylum</i> , emend. ....  | 38.29 |
| squalidus Philippi, 1865, Anthrax .....   | 38.33 |
| squamigera (Coquillett), 1892 (Anthrax), Villa (Villa) .....                        | 38.56 |
| squamiventris Edwards, 1937, Sericosoma .....                                       | 38.11 |
| stenopennis Hall, 1976, Dolichomyia .....   | 38.20 |
| steno (Wiedemann), 1828 (Anthrax), Villa (Paravilla) .....                          | 38.51 |
| stictopennis Hall, 1976, Phthiria (Poecilognathus) .....                            | 38.15 |
| stigmatias Knab, 1913, Heterostylum .....   | 38.5  |
| Stonyx Osten Sacken, 1886 .....   | 38.34 |
| stymphalis (Wiedemann), 1828 (Anthrax), Ligyra .....                                | 38.44 |
| subaequalis (Lynch Arribálzaga), 1878 (Anthrax), Villa .....                        | 38.57 |
| subandina (Philippi), 1865 (Anthrax), Villa (Chrysanthrax) .....                    | 38.47 |
| subfascia (Walker), 1849 (Anthrax), Exoprosopa .....                                | 38.42 |
| subflavus Painter, 1926, Parabombylius .....  | 38.4  |
| subsinnuata Oldroyd, 1938, Diplocampta .....  | 38.45 |
| succinta (Coquillett), 1894 (Argyromoeba), Villa (Hemipenthes) ..                   | 38.49 |
| surinamensis Rondani, 1863, Hyperalonia .....                                       | 38.58 |
| syndesmus (Coquillett), 1894 (Thlipsogaster), Parabombylius ....                    | 38.4  |
| syrtis (Coquillett), 1887 (Anthrax), Villa (Paravilla) .....                        | 38.51 |
| Systropinae .....   | 38.17 |
| Systropus Wiedemann, 1820 .....   | 38.17 |
| tarapacensis Hall, 1967, Aphoebantus .....  | 38.26 |
| tarapacensis Hall, 1976, Villa (Hemipenthes) .....                                  | 38.50 |
| tardus Coquillett, 1891, Aphoebantus .....  | 38.26 |
| tenthes Melander, 1961, Mythicomylia .....  | 38.13 |
| tenuirostris (Macquart), 1850 (Anthrax), Villa (Hemipenthes) ....                   | 38.50 |
| terminalis (Wiedemann), 1830 (Anthrax), Ogcodocera .....                            | 38.24 |
| testacea (Macquart), 1840 (Cyclorhynchus), Phthiria (Cyclorhynchus) .....           | 38.15 |
| texana Painter, 1933, Villa (Rhynchanthrax) .....                                   | 38.52 |
| Thevenemyia Bigot, 1875 .....   | 38.22 |
| <i>Thevenetimyia</i> Bigot, 1892 .....  | 38.22 |
| thlipsomyzoides (Jaennicke), 1867 (Poecilognathus), Phthiria (Poecilognathus) ..... | 38.15 |
| thomae (Fabricius), 1805 (Anthrax), Exoprosopa .....                                | 38.42 |
| Thyridanthrax Osten Sacken, 1886 .....  | 38.52 |
| tiburoniensis Cole, 1923, Exoprosopa .....  | 38.42 |
| tinctus (Thomson), 1869 (Anthrax), Lepidanthrax .....                               | 38.36 |
| toltec Painter, 1962, Phthiria (Phthiria) .....                                     | 38.15 |
| Tomophthalmae .....   | 38.24 |
| <i>Toxomyia</i> Hull, 1973 .....  | 38.20 |
| Toxophora Meigen, 1803 .....  | 38.20 |
| Toxophorinae .....  | 38.20 |
| trabalis Loew, 1869, Exoprosopa .....   | 38.39 |
| transandina (Edwards), 1934 (Macrocondyla), Lyophlaeba (Lyophlaeba) .....           | 38.28 |

|   |              |
|---|--------------|
| transatlanticus (Philippi), 1865 (Bombylius), Dischistus (Dischistus) ..... | 38.8         |
| translata (Walker), 1852 (Anthrax), Villa (Villa) .....                     | 38.56        |
| travassosi (d'Andretta & Carrera), 1950 (Eniconeura), Toxophora .....       | 38.21        |
| trepta Hall, 1976, Mythicomymia .....                                       | 38.13        |
| trifida Hall, 1976, Villa (Villa) .....                                     | 38.56        |
| trifigurata (Walker), 1860 (Anthrax), Ligyra .....                          | 38.43        |
| triformis Melander, 1961, Mythicomymia .....                                | 38.13        |
| trimacula (Walker), 1849 (Anthrax), Villa (Chrysanthrax) .....              | 38.46        |
| trimaculatus Macquart, 1848, Anthrax .....                                  | 38.34        |
| Triodina Hull, 1973 .....   | 38.25        |
| Triodites Osten Sacken, 1877 .....  | 38.25        |
| Triplasius, authors .....   | 38.5         |
| Triploechnus Edwards, 1937 .....  | 38.5         |
| tristis Bigot, 1892, Phthiria (Phthiria) .....                              | 38.16        |
| tristis (Séguy), 1930 (Eniconeura), Toxophora .....                         | 38.21        |
| Tritoneura Schiner, 1867 .....  | 38.27        |
| trochilides (Williston), 1901 (Geron), Oligodranes .....                    | 38.16        |
| truxalia Hull, 1971, Euprepina .....  | 38.9         |
| tubicen Melander, 1961, Mythicomymia .....                                  | 38.13        |
| Ulosometa Hull, 1973 .....  | 38.29        |
| una Oldroyd, 1938, Villa (Exhyalanthrax) .....                              | 38.57        |
| unicincta (Bigot), 1892 (Anthrax), Villa (Chrysanthrax) .....               | 38.47        |
| unicolor (Jaenicke), 1867 (Cillenia), Platamomyia .....                     | 38.8         |
| unimaculata Coquillett, 1904, Phthiria (Poecilognathus) .....               | 38.16        |
| uraguayi Macquart, 1840, Exoprosopa .....                                   | 38.42        |
| uruguayi. Exoprosopa, emend. ....   | 38.42        |
| Usinae .....  | 38.16        |
| valdivianus Philippi, 1865, Bombylius .....                                 | 38.4         |
| valdivianus Rondani, 1863, Bombylius (Bombylius) .....                      | 38.3         |
| valida (Wiedemann), 1830 (Anthrax), Bryodemina .....                        | 38.24        |
| valparaisensis Hall, 1976, Villa (Villa) .....                              | 38.56        |
| vana (Coquillett), 1887 (Anthrax), Villa (Chrysanthrax) .....               | 38.47        |
| vanduzeei Cole, 1923, Villa .....   | 38.57        |
| varicolor Macquart, 1846, Exoprosopa .....                                  | 38.42        |
| varipennis (Williston), 1901 (Sphenoidoptera), Cyllenia .....               | 38.23        |
| varipennis Williston, 1901, Toxophora .....                                 | 38.21        |
| vastitatis Cole, 1923, Villa (Villa) .....                                  | 38.56        |
| Velocia Coquillett, 1886 .....  | 38.42        |
| verdensis Oldroyd, 1938, Villa (Villa) .....                                | 38.56        |
| verona Curran, 1934, Toxophora .....  | 38.20        |
| versicolor Painter, 1932, Geron .....                                       | 38.17        |
| vetusta Walker, 1857, Lepidophora .....                                     | 38.21        |
| vexativus Painter & Hall, 1960, Poecilanthrax .....                         | 38.38        |
| vicina (Macquart), 1846 (Anthrax), Villa .....                              | 38.57        |
| vicina (Macquart), 1840 (Anthrax), Villa (Villa) .....                      | 38.53        |
| vicinus Blanchard, 1852, Anthrax .....                                      | 38.32        |
| vicinus Painter, 1963, Systropus .....                                      | 38.19        |
| vierecki Cresson, 1919, Triploechnus .....                                  | 38.6         |
| Villa Liroy, 1864 .....   | 38.45, 38.53 |
| villica (Philippi), 1865 (Anthrax), Villa (Paravilla) .....                 | 38.51        |

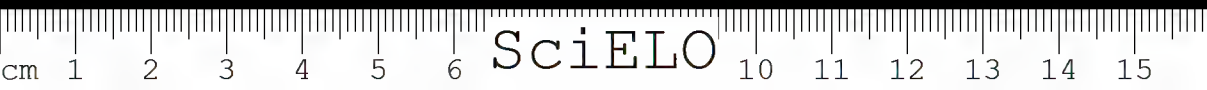
|   |       |
|---|-------|
| <i>virgata</i> Osten Sacken, 1877, <i>Toxophora</i> .....                                   | 38.21 |
| <i>vitripennis</i> (Philippi), 1865 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Villa</i> ) ..... | 38.56 |
| <i>vittatus</i> Curran, 1930, <i>Parabombylius</i> .....                                    | 38.4  |
| <i>vulgaris</i> (Philippi), 1865 ( <i>Comptosia</i> ), <i>Lyophlaeba</i> .....              | 38.29 |
| <i>vulgaris</i> Philippi, 1865, <i>Phthiria</i> .....                                       | 38.14 |
| <i>vulpecula</i> (Philippi), 1865 ( <i>Anthrax</i> ), <i>Villa</i> ( <i>Villa</i> ) .....   | 38.54 |
| <i>vulpeculus</i> Coquillett, 1894, <i>Aphoebantus</i> .....                                | 38.26 |
| <i>Walkeromyia</i> Paramonov, 1934 .....  | 38.44 |
| <i>willistoni</i> (Coquillett), 1887 ( <i>Anthrax</i> ), <i>Poecilanthrax</i> .....         | 38.39 |
| <i>willistoni</i> Curran, 1942, <i>Systropus</i> .....                                      | 38.19 |
| <i>xanthinus</i> Painter, 1963, <i>Systropus</i> .....                                      | 38.20 |
| <i>xanthobasis</i> Curran, 1929, <i>Heterostylum</i> .....                                  | 38.5  |
| <i>xanthogaster</i> Hall, 1976, <i>Phthiria</i> ( <i>Poecilognathus</i> ) .....             | 38.16 |
| <i>xylocopae</i> Marston, 1970, <i>Anthrax</i> .....  | 38.34 |
| <i>yaqui</i> Painter, 1962, <i>Villa</i> ( <i>Hemipenthes</i> ) .....                       | 38.50 |
| <i>Ylasoia</i> Speiser, 1920. ....  | 38.29 |
| <i>yosemite</i> (Cresson), 1919 ( <i>Eclimus</i> ), <i>Thevenemyia</i> .....                | 38.23 |
| <i>zikani</i> (d'Andretta & Carrera), 1950 ( <i>Eniconeura</i> ), <i>Toxophora</i> ....     | 38.21 |



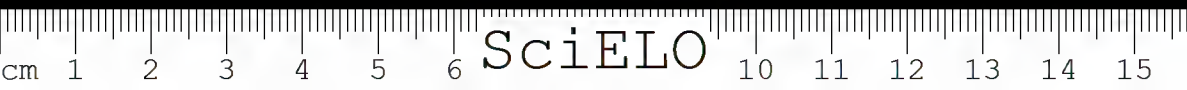
Composto e impresso em 1978, nas oficinas da  
EMPRESA GRÁFICA DA REVISTA DOS TRIBUNAIS S.A.  
Rua Conde de Sarzedas, 38 — Tel. 36-6958 (PBX)  
CEP 01512 — São Paulo, SP, Brasil,



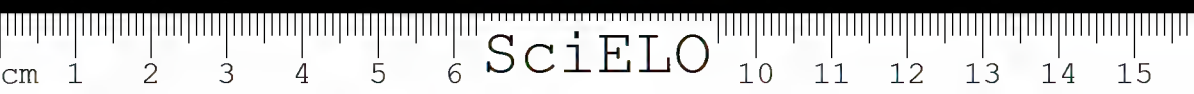




SciELO



SciELO

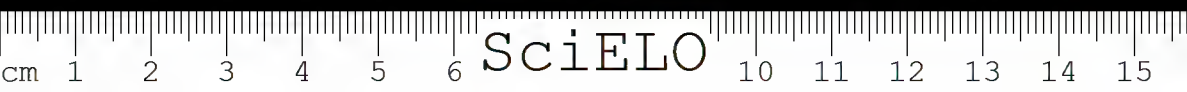


SciELO

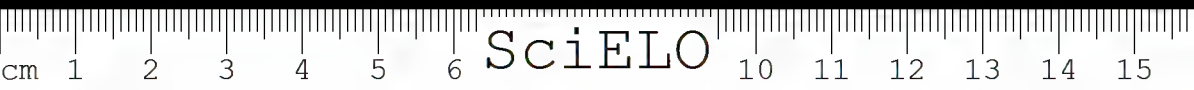
SUPERFAMILY EMPIDOIDEA

Family Empididae

Family Dolichopodidae







SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

39

## FAMILY EMPIDIDAE

(EMPIDAE, HYBOTIDAE)

KENNETH G. V. SMITH

*Department of Entomology, British Museum (Natural History)  
London, S. W. 7, England*

The Empididae is a large family of predaceous flies exhibiting great variety of form and habit. The immature stages are not well known but of those recently described outside the Neotropical region some are aquatic (e.g. Clinoceratinae, Vaillant, 1952), some occur in soil (e.g. Empidinac, Krivosheina, 1960; Hobby & Smith, 1961-2) or rotting wood or rarely in dung (*Ocydromia*, Grunin, 1953). The larvae as well as the adults appear to be predaceous. Adults mostly prey on any available insect food of suitable size, usually other Diptera. Some genera may specialise, but often apparent specialisation in taking a particular type of prey is merely due to excessive abundance of that prey at the time and place of sampling. The prey is often used by the male as a courtship gift to the female who feeds on it during copulation. The prey may be contained within a balloon or web of silk (e.g. *Empimorpha*, *Hilara*). Sometimes inedible prey is offered to the female, such as plant seeds or empty balloons or webs of silk which nevertheless appear to play an essential part in courtship behaviour, probably functioning as "releasers". Some species form dancing swarms; the genus *Hilara* does so over water where it preys upon insects trapped in the surface film. Some *Hormopeza* species swarm in smoke, a phenomenon not yet fully understood (Kessel, 1960). It is interesting to note that the Platypezid genus *Microsania*, which also swarms in smoke, was formerly placed in the Empididae. Papers on courtship and predaceous behaviour are given in the literature cited under the following authors: Crane, Eltringham, Gruhl, Hamm, Hobby & Smith, and Laurence.

The Empididae are of world wide distribution, but are best represented in the Northern temperate or mountain regions. Outside the Palaearctic region our knowledge of the Empididae is very incomplete and there is little doubt that many species await description in the Neotropical region. Some 645 species and subspecies in 57 genera are now listed from a study of the literature up to September 8th 1965. Some new synonymy and new combinations are established.

39.1

For information on some nomenclatorial matters I thank Messrs. Curtis W. Sabrosky and George Steyskal. I thank my wife for her careful preparation and checking of the final typescript.

### Subfamily TACHYDROMIINAE

#### Genus DRAPETIS Meigen

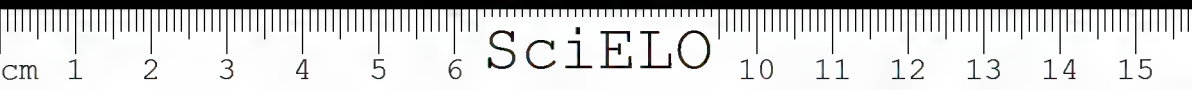
DRAPETIS Meigen, 1822:91. Type-species, *erilis* Meigen (mon.).

#### Subgenus DRAPETIS Meigen

- DIVERGENS Loew, 1872:90. Type-locality: S. United States, Texas. Distr. — S. United States, Central America, Windward Isles (St. Vincent).  
*minuta* Williston, 1896:442, fig. 168. Type-locality: Windward Isles, St. Vincent.
- FLAVICORNIS Melander, 1918:193. Type-locality: Panama, La Chorrera. Distr. — Panama (La Chorrera), ? Jamaica.
- FORTIS Bezzi, 1909b:399. Type-locality: Peru, Puerto Bermúdez, Pichi River, 300 m. Distr. — Peru (Puerto Bermúdez).
- INTERMEDIA Smith, 1962:201, fig. 11. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- ?OBSCURIPENNIS Philippi, 1865:768. Type-locality: Chile, Valdivia. Distr. — Chilo (Valdivia). Ref. — Collin, 1933:19.
- PROCURRENS Melander, 1927:309. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).  
*sp.* (near *divergens* Loew) Collin, 1933:19. Locality: Uruguay, Montevideo.
- ZONALIS Curran, 1932:351. Type-locality: Galapagos Is., Floreana, Post Office Bay. Distr. — Galapagos (Floreana).

#### Subgenus CROSSOPALPUS Bigot

- CROSSOPALPUS Bigot, 1857:563 (as genus). Type-species, *Platypalpus ambiguus* Macquart (mon.) = *flexuosa* Loew.
- Drapetis*, subgenus *Eudrapetis* Melander, 1918:187. Type-species, *spectabilis* Melander (orig. des.).
- ARMIPES (Bezzi), 1909b:398, fig. 18 (*Drapetis* s. s.). Type-locality: Chile, Tacna, 600 m. Distr. — Chile (Tacna).
- DORSISETA (Melander), 1918:199 (*Eudrapetis*). Type-locality: Costa Rica, Juan Viñas. Distr. — Costa Rica (Juan Viñas).
- FEMORALIS (Wheeler & Melander), 1901:376 (*Drapetis*). Type-locality: Mexico, Vera Cruz and Tabasco. Distr. — Mexico (Vera Cruz, Tabasco).
- GILVIPES (Loew), 1872:89 (*Drapetis*). Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas), Puerto Rico (Cayey).



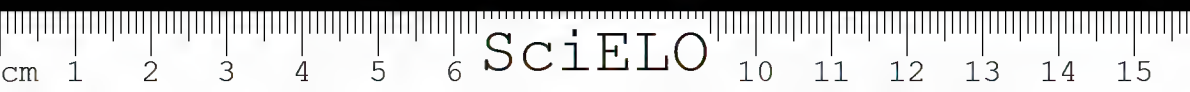
- INERMIS (Melander), 1918:194 (*Eudrapetis*). Type-locality: Panama, Alhajucla. Distr. — Panama (Alhajucla).
- NTENS (Melander), 1918:200 (*Eudrapetis*). Type-locality: Cuba, Havana; Mexico, Orizaba. Distr. — Cuba (Havana), Mexico (Orizaba), ?Panama (Aquadá).
- OEDIMERA (Melander), 1918:201 (*Eudrapetis*). Type-locality: Mexico, Vera Cruz, Cordoba. Distr. — Mexico (Vera Cruz, Cordoba).
- PENNESCENS (Melander), 1918:202 (*Eudrapetis*). Type-locality: Peru, Matucana. Distr. — Peru (Matucana).
- PERPLEXA Smith, 1962:201. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- PLUMIPES (Melander), 1918:203 (*Eudrapetis*). Type-locality: U.S.A., Texas, Austin. Distr. — U.S.A. (Texas, Alabama), Mexico (Orizaba).
- QUADRISETOSA (Melander), 1918:203 (*Eudrapetis*). Type-locality: Costa Rica, San José; Mexico, Orizaba. Distr. — Mexico (Orizaba), Costa Rica (San José).
- SEPTENTRIONALIS Melander, 1902:211. Type-locality: U.S.A., Michigan. Distr. — U.S.A. (Washington to Vermont, south to Virginia).  
var. *mexicana* (Melander), 1918:204 (*Eudrapetis*). Type-locality: Mexico, Tampico. Distr. — Mexico (Tampico).
- sp. (near *xanthopoda* Williston) Williston, 1896:443. Locality: Windward Isles, St. Vincent.
- XANTHOPODA (Williston), 1896:308, pl. 4, fig. 85 (*Drapetis*). Type-locality: Windward Isles, St. Vincent. Distr. — Windward Isles, St. Vincent.  
*flavipes* Williston (*nec* Macquart), 1896:441 (*lapsus calami*). Ref. — Melander, 1902:212.

#### Subgenus ELAPHROPEZA Macquart

- ELAPHROPEZA Macquart, 1827:86 (as genus). Type-species, *Tachydromia ephippiata* Fallén (mon.).
- ABBREVIATA Smith, 1962:204, fig. 12. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- ACUMINATA Smith, 1962:206. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- BACIS (Walker), 1849:510 (*Platypalpus*). Type-locality: "Jamaica". Distr. — Jamaica.
- BARUERI Smith, 1962:206. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).
- BISETICAUDA Smith, 1963:153, fig. 1. Type-locality: British Guiana, Mazaruni. Distr. — British Guiana (Mazaruni).
- CALVA Melander, 1918:206. Type-locality: Panama, Corazal; Mexico, Vera Cruz, Motzorongo. Distr. — Mexico (Vera Cruz, Motzorongo), Panama (Corazal).
- CHILATOCOSTA Bezzi, 1904a:355, fig. 6. Type-locality: Australia, Brisbane. Distr. — Australia, ? Bolivia (Bezzi, 1909b).



- COMATA Melander, 1918:207. Type-locality: West Indies, Trinidad. Distr. — West Indies (Trinidad), Brazil (São Paulo).
- FLAVIDA (Williston), 1896:308, pl. 11, fig. 86 (*Drapetis*). Type-locality: Windward Isles, St. Vincent. Distr. — U.S.A. (Louisiana), Mexico (Vera Cruz, Orizaba, Yucatan), Hayti, St. Vincent, Puerto Rico, Brazil (Taipu), Peru (Meshagua). Ref. — Smith, 1962:203.  
*fulvida* Bezzi, 1904b:144 (*Tachista*) (err. typ. for *flavida* Williston).  
*xanthopodus* Williston, 1896:441 (*lapsus calami*).
- INFLEXA Melander, 1918:207. Type-locality: Panama, Canal Zone. Distr. — Panama.
- LAETA Melander, 1918:208. Type-locality: Panama, Alhajuela. Distr. — Panama (Alhajuela).  
 var. *ungulifera* Melander, 1918:208. Type-locality: Panama, Corozal.  
 var. *nigrocalcarata* Melander, 1918:208. Type-locality: Panama, Alhajuela.
- LENKOI Smith, 1962:207. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).
- LUTEICOLLIS Melander, 1918:209. Type-locality: Panama, Canal Zone. Distr. — Panama (Canal Zone).
- MACROPALPIS Smith, 1962:203, fig. 13. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- MARGINATA Smith, 1962:204. Type-locality: Brazil, São Paulo, Barueri, Distr. — Brazil (São Paulo, Barueri).
- MAZARUNI Smith, 1963:154, fig. 2. Type-locality: British Guiana, Mazaruni. Distr. — British Guiana (Mazaruni).
- MONOCHAETA (Bezzi), 1909b:401 (*Ctenodrapetis*). Type-locality: Peru, Umahuankiali, 500 m. Distr. — Peru (Umahuankiali).
- NIGRICANS Melander, 1918:209. Type-locality: Panama, Canal Zone, Corozal. Distr. — Panama (Corozal).
- NIGRINOTUM Smith, 1962:205. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- PLEURALIS Melander, 1918:210. Type-locality: Panama, Alhajuela; Mexico, Vera Cruz, Orizaba. Distr. — Mexico (Vera Cruz, Orizaba). Panama (Alhajuela).
- PLUMEA Melander, 1918:210. Type-locality: Mexico, Orizaba. Distr. — Mexico (Orizaba).
- RECTINEURA Melander, 1918:211. Type-locality: Panama, Taboga I. and Corozal. Distr. — Panama [Panama (Taboga I. and Corozal)], Brazil (São Paulo, Andes).
- SANGUINEA (Lynch Arribáizaga), 1878:294 (*Tachydromia*). Type-locality: Argentina, Buenos Aires. Distr. — Argentina (Buenos Aires).
- SEMINIGRA Melander, 1918:211. Type-locality: Costa Rica, San José. Distr. — Costa Rica (San José).
- SIMILIS Smith, 1963:155, fig. 3. Type-locality: British Guiana, Tukeit. Distr. — British Guiana (Tukeit).



- SIMPLICIPES Melander, 1918:212. Type-locality: Jamaica, Montego Bay. Balaclava. Distr. — Jamaica (Montego Bay, Balaclava).
- sp. Collin, 1933:21. Locality: N. Argentina, Misiones, Bompland.
- TENERA Melander, 1918:212. Type-locality: Panama, Porto Bello; Trinidad, Montserrat. Distr. — Panama (Porto Bello), Trinidad (Montserrat).
- UNIVITTATA Smith, 1962:205. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- UPSILON Melander, 1918:214. Type-locality: "Jamaica". Distr. — Jamaica.
- VITTATA Melander, 1918:214. Type-locality: Florida, Lemon City; Cuba, Havana. Distr. — U.S.A. (Florida), Cuba (Havana).

#### Genus ALLODROMIA Smith

- ALLODROMIA Smith, 1962:207. Type-species, *brunnea* Smith (orig. des.).
- BRUNNEA Smith, 1962:208, figs. 7-9. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- CURVIRADIUS Smith, 1962:208, figs. 5-6. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).

#### Genus MICREMPIS Melander

- MICREMPIS Melander, 1927:271, 298. Type-species, *varipes* Melander (orig. des.).
- VARIPIES Melander, 1927:299. Type-locality: Peru, Lima District, Matucana. Distr. — Peru (Lima District).

#### Genus AUSTRODROMIA Collin

- AUSTRODROMIA Collin, 1933:21. Type-species, *indifferens* Collin (orig. des.).
- BREVISETA Smith, 1962:210. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- COLLINI Smith, 1962:210, fig. 10. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- FURCATICAUDA Collin, 1933:24, fig. 4c. Type-locality: Chile, Llanquihue, Peulla. Distr. — Chile (Llanquihue).
- INDIFFERENS Collin, 1933:23, figs. 4a-b. Type-locality: Argentina, Rio Negro, L. Correntoso. Distr. — Argentina (Rio Negro).
- POLYCHAETA Smith, 1962:209. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- TALARIS Collin, 1933:32. Type-locality: Chile, Chiloe I., Mechuque I. Distr. — S. Chile (Chiloe I., Mechuque I.).
- ?VALDIVIANA (Philippi), 1865:768 (*Drapetis*). Type-locality: "Chile". Distr. — Chile.

## Genus *CHERSODROMIA* Walker

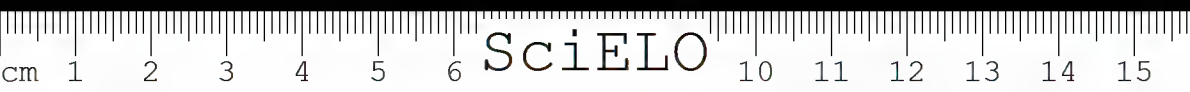
- CHERSODROMIA* Walker, 1851:137. Type-species, *Tachypeza brevipennis* Zetterstedt (Rondani, 1856:147) = *arenaria* (Haliday).  
*Coloboneura* Melander, 1902:229. Type-species, *inusitata* Melander (mon.).  
*Halsanolotes* Becker, 1902:41. Type-species, *amaurus* Becker (mon.).  
*Thinodromia* Melander, 1906:370. Type-species, *inchoata* Melander (mon.).  
*LONGICORNIS* (Curran), 1931:11 (*Coloboneura*). Type-locality: Panama, Patilla Point. Distr. — Panama (Patilla Point). Ref. — Curran, 1931:1 (key to American species).

## Genus *TACHYDROMIA* Meigen

- Sicus* Latreille, 1796:158 (preocc. Scopoli, 1763). Type-species, *Musca cimicoides* Fabricius (sub. mon., Latreille, 1805:312) = *arrogans* (Linnaeus).  
*Coryneta* Meigen, 1800:27. Type-species, *Tachydromia connexa* Meigen (Coquillett, 1910:528). Suppressed by I.C.Z.N., 1963:339.  
*TACHYDROMIA* Meigen, 1803:269. Type-species, *Musca cimicoides* Fabricius (Curtis, 1833: pl. 477; misident.) = *connexa* Meigen.  
*Sicodus* Rafinesque, 1815:131 (n. name for *Sicus* Latreille). Type-species, *Musca cimicoides* Fabricius (aut.) = *arrogans* (Linnaeus).  
*Phoneutisca* Loew, 1863:19 (Cent. 3, no. 35). Type-species, *bimaculata* Loew (mon.).  
*Tachista* Loew, 1864:15 (as *Tachysta*, p. 19). Type-species, *Musca cimicoides* Fabricius (as Meigen; Coquillett, 1903:258; misident.) = *connexa* Meigen.  
*CHIJATA* Melander, 1910:55, fig. 13. Type-locality: Mexico, Guerrero, Chilpancingo, 4600 ft. and Sierra de las Aguas Escondidas, 9500 ft. Distr. — Mexico (Guerrero, Chilpancingo, Sierra de las Aguas Escondidas).  
*SACHEM* Melander, 1927:283. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica (Turrialba).

## Genus *PLATYPALPUS* Macquart

- PLATYPALPUS* Macquart, 1827:92. Type-species, *Musca cursitans* Fabricius (Westwood, 1840:132).  
*Tachydromia*, authors, not Meigen.  
*ANNULARIS* (Bezzi), 1909b:404 (*Tachydromia*). Type-locality: Peru, Cuzco, 3500 m. Distr. — Peru (Cuzco).  
*ANTENNALIS* (Smith), 1962:198, fig. 4 (*Tachydromia*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia). N. COMB.  
*CALIGARIS* Melander, 1927:217. Type-locality: Mexico, Guerrero, Omilteme and Amula, 6000-8000 ft. Distr. — Mexico (Guerrero, Omilteme and Amula). (Nom. nov. for *Platypalpus caligatus* var. Melander).



- trivialis* Wheeler & Melander, 1901:375 (nec Loew, 1864) (in partibus).  
*caligatus* var. Melander, 1902:217.
- CALIGATUS Melander, 1902:216, figs. 27, 35, 46. Type-locality: Mexico, Guerrero, Omilteme and Amula, 6000-8000 ft. Distr. — Mexico (Guerrero, Omilteme and Amula).
- trivialis* Wheeler & Melander, 1901:375 (nec Loew, 1864) (in partibus).
- CHILENSIS Philippi, 1865:767. Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Casa Pangue, Peulla), Argentina (Bariloche). Ref. — Collin, 1933:15.
- EUMERUS (Bezzi), 1909b:404 (*Tachydromia*). Type-locality: Peru, Tarma, 3000 m. Distr. — Peru (Tarma).
- MOLLITUS (Collin), 1933:17, fig. 2a (*Tachydromia*). Type-locality: Argentina, Rio Negro, L. Correntoso. Distr. — Argentina (Rio Negro, L. Correntoso). N. COMB.
- ORPHINUS (Collin), 1933:15, fig. 2 (*Tachydromia*). Type-locality: Argentina, Rio Negro, L. Gutierrez. Distr. — Chile (Casa Pangue, Angol), Argentina (Rio Negro, L. Gutierrez). N. COMB.
- PAPILLATUS (Collin), 1933:17, fig. 2d (*Tachydromia*). Type-locality: Argentina, Rio Negro, L. Correntoso. Distr. — Argentina (Rio Negro, L. Correntoso). N. COMB.
- PAULSENI (Philippi), 1865:768 (*Tachydromia*). Type-locality: "Chile". Distr. — Chile.
- PERSEPHONE (Collin), 1933:14, fig. 1c (*Tachydromia*). Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I.). N. COMB.
- PICIPENNIS (Bezzi), 1909b:402, fig. 19 (*Tachydromia*). Type-locality: Peru, Tarma. Distr. — Peru (Tarma), ? Costa Rica, Brazil (Santa Catarina). Ref. — Smith, 1962:197 (key).
- PLUTO Melander, 1902:217, pl. 6, fig. 39. Type-locality: U.S.A., California, San Diego Co. Distr. — U.S.A. (California), Peru (Coroico).
- PROSERPINA (Bezzi), 1909b:405 (*Tachydromia*). Type-locality: Peru, Cuzco, 3500 m.; Bolivia, Cordillera, 4000-5000 m. Distr. — Peru (Cuzco), Bolivia (Cordillera), Argentina (L. Correntoso, L. Nahuel Huapi, Puerto Blest). Ref. — Collin, 1933:13, figs. 1a-b (antenna, male genitalia).
- QUADRIMACULATUS (Smith), 1962:199, figs. 1-2 (*Tachydromia*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia). N. COMB.
- QUADRISETA (Collin), 1933:15 (*Tachydromia*). Type-locality: Chile, Casa Pangue. Distr. — Chile (Casa Pangue). N. COMB.
- sp. (? near *testacea* Philippi) Smith, 1962:198 (*Tachydromia*). Locality: Brazil, Santa Catarina, Nova Teutônia.
- TESTACEUS Philippi, 1865:767. Type-locality: Chile, Santiago. Distr. — Brazil (Santa Catarina, Nova Teutônia), Chile (Santiago), Argentina (Bariloche, L. Gutierrez).
- semifulvus* Bigot, 1889:129 (*Microphorus*). Type-locality: "Chile".



UNCINATUS Melander, 1927:324. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

W-MACULATUS (Smith), 1962:199, fig. 3 (*Tachydromia*). Type-locality: Brazil, Minas Gerais, Sapucaí-Mirim, Cidade Azul, 1400m. Distr. — Brazil (Minas Gerais, Sapucaí-Mirim). N. COMB.

### Genus TACHYEMPIS Melander

TACHYEMPIS Melander, 1927:288. Type-species, *agens* Melander (orig. des.).

ADUNCA Collin, 1933:25, figs. 5a-c. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas).

APICIS (Williston), 1896:442, pl. 16, fig. 167 (*Drapetis*). Type-locality: Windward Is., St. Vincent. Distr. — Windward Is. (St. Vincent, Grenada).

*insularis* Melander, 1910:58, fig. 17 (*Tachydromia*). Type-locality: Windward Is., Grenada.

CAPNODES Melander, 1927:280. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

EPIBOSCA Melander, 1927:291. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

GAGATINA Melander, 1927:289. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

HALTERATA Melander, 1927:292. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

LONGISPINA Melander, 1927:289. Type-locality: Cuba, Havana. Distr. — Cuba (Havana).

MELANDERI Smith, 1962:211. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).

NIGRA Melander, 1927:288. Type-locality: Costa Rica, La Suiza de Turrialba and San José. Distr. — Costa Rica (La Suiza de Turrialba, San José), Brazil (Santa Catarina, Nova Teutônia). Ref. — Smith, 1962:211 (key).

PICTIPES Melander, 1927:290, pl. 4, fig. 35. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

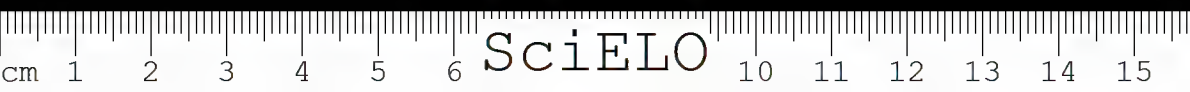
PURPURIPALPIS Smith, 1962:211. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).

RUFICORNIS Melander, 1927:291. Type-locality: Costa Rica, Cachi, 3450 ft. Distr. — Costa Rica (Cachi).

SCHILDI Melander, 1927:289. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

SIMPLICIOR (Wheeler & Melander), 1901:375 (*Phoneutisca*). Type-locality: Mexico, Guerrero, Chilpancingo, 4600 ft. Distr. — Mexico (Guerrero, Chilpancingo).

TETRACHAETA Melander, 1927:291. Type-locality: Chile, Concepción. Distr. — Chile (Concepción).



## Subfamily HYBOTINAE

### Genus HOMALOCNEMIS Philippi

HOMALOCNEMIS Philippi, 1865:752. Type-species, *nigripennis* Philippi (mon.).

NIGRIPENNIS Philippi, 1865:752. Type-locality: "Chile". Distr. — Chile. Ref. — Collin, 1933:29, figs. 6a-c (wing, male genitalia and female ovipositor).

PRAESUMPTA Collin, 1933:31. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Ancud, Ensenada).

### Genus ACARTEROPTERA Collin

ACARTEROPTERA Collin, 1933:32. Type-species, *recta* Collin (orig. des.).

LICINA Collin, 1933:34. Type-locality: Chile, Marga-Marga. Distr. — Chile (Marga-Marga).

RECTA Collin, 1933:32, figs. 7a-c. Type-locality: Chile, Chiloe I., Mechuque I. Distr. — Chile (Chiloe I., Mechuque I.).

### Genus SYNECHES Walker

*Damalis* Fabricius, 1805:147. Type-species, *curvipes* Fabricius (Westwood, 1835:684). [Fabricius described two Empids and two Asilids in *Damalis* and while Westwood's designation is quite valid, *Damalis* has been used in Asilidae, but uniformly ignored by workers on Empididae. In the interests of stability I agree with Hull (1962, Robber flies of the world, p. 53) and suggest that a recommendation be put before the I.C.Z.N. that Westwood's designation be invalidated].

SYNECHES Walker, 1852:165. Type-species, *simplex* Walker (mon.) = *phthia* (Walker).

*Pterospilus* Rondani, 1856:152. Type-species, *Hybos muscarius* Fabricius (mon.).

*Syneches*, subgenus EPICEIA Walker, 1860:149 (as genus). Type-species, *ferruginea* Walker (mon.).

*Syneches*, subgenus HARPAMERUS Bigot, 1859:306 (as genus). Type-species, *signatus* Bigot (mon.).

ANNULIPES Bezzi, 1909b:316. Type-locality: Bolivia, Mapiri, San Carlos, 800-1200 m. Distr. — Bolivia (Mapiri, San Carlos).

BARYPTERUS Melander, 1927:40. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

CATARINAE Smith, 1962:215, fig. 16. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).

CURVINEURA Melander, 1927:41. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica (Turrialba).

CURVIPES (Fabricius), 1805:147 (*Damalis*). Type-locality: "South America". Distr. — British Guiana (Kartabo, Moraballi Creek, Kaieteur). Ref. — Smith, 1963:155, fig. 4 (male genitalia).

- DICHOGENUS* Melander, 1927:41. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica (Turrialba).
- DICHIROUS* Bezzi, 1909b:318. Type-locality: Bolivia, Mapiri, San Antonio, 1000 m. Distr. — Bolivia (Mapiri, San Antonio).
- DUPLEX* Melander, 1927:41. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- FUSCESCENS* Bezzi, 1909b:319. Type-locality: Bolivia, Mapiri, Sarampiuni, 700 m. Distr. — Bolivia (Mapiri, Sarampiuni).
- INVERSUS* Curran, 1928b:20. Type-locality: Jamaica, Cinchona. Distr. — Jamaica (Cinchona).
- LONGIVENTRIS* Melander, 1927:42. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- LUTEUS* (Wiedemann), 1830:647 (*Hybos*). Type-locality: "Brazil". Distr. — "Brazil".
- MANAOS* Smith, 1962:215, fig. 17. Type-locality: Brazil, Amazonas, Manaus. Distr. — Brazil (Amazonas, Manaus).
- MORABALLI* Smith, 1963:155. Type-locality: British Guiana, Essequibo River, Moraballi Creek. Distr. — British Guiana (Moraballi Creek).
- ORELISCUS* Bezzi, 1909b:315. Type-locality: Bolivia, Lorenzopata, 2000-2500 m; Peru, Chanchamayo, 800 m. Distr. — Bolivia (Lorenzopata), Peru (Chanchamayo).
- PHAEOPTERUS* Bezzi, 1905:427. Type-locality: Peru, Callanga. Distr. — Peru (Callanga). Ref. — Bezzi, 1909b:315 (key).
- PLANICEPS* Melander, 1927:43. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica (Turrialba).
- PUSILLUS* Loew, 1861b:320. Type-locality: U.S.A., Chicago, New York. Distr. — U.S.A. (Chicago, New York), Puerto Rico (Barros).
- PYRAMIDATUS* Bezzi, 1905:428. Type-locality: Peru, Callanga. Distr. — Peru (Callanga, Chanchamayo), Brazil (Santa Catarina, Nova Teutônia). Ref. — Smith, 1962:213, fig. 14 (profile of thorax).
- QUADRANGULARIS* Wheeler & Melander, 1901:374. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Tabasco, Teapa). Ref. — Bezzi, 1909b:314 (key).
- QUADRICINCTUS* (Fabricius), 1805:148 (*Damalis*). Type-locality: "South America". Distr. — "South America".
- REPLETUS* Bezzi, 1909b:317. Type-locality: Peru, Pichis River, Puerto Bermúdez, 300 m. Distr. — Peru (Pichis River, Puerto Bermúdez).
- RUFICOLLIS* (Walker), 1852:206 (*Hybos*). Type-locality: "Brazil". Distr. — "Brazil".
- STIGMATICALIS* Bezzi, 1909b:316. Type-locality: Bolivia, Mapiri, San Carlos, 800-1200 m. Distr. — Bolivia (Mapiri, San Carlos).
- TOMENTOSUS* Smith, 1962:216. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).

WALKERI Smith, 1962:214, fig. 15. Type-locality: Brazil, Rio de Janeiro, km 47 of the old road between Rio and São Paulo. Distr. — Brazil (Rio de Janeiro).

### Genus HYBOS Meigen

- ?*Noeza* Meigen, 1800:27. Type-species, *Musca grossipes* Linnaeus (Coquillett, 1910:576). Suppressed by I.C.Z.N., 1963:339.
- HYBOS Meigen, 1803:269 (1804:239). Type-species, *funebis* Fabricius (Curtis, 1837: pl. 661) = *grossipes* (Linnaeus).
- HALTERALIS Bezzi, 1909b:310. Type-locality: Bolivia, Cordillera, 4000-5000 m. Distr. — Bolivia (Cordillera).
- LURIDUS Bezzi, 1909b:310. Type-locality: Bolivia, Mapiri, Lorenzopata. 2000-2500 m. Distr. — Bolivia (Mapiri, Lorenzopata).
- MELLIPES Wheeler & Melander, 1901:373. Type-locality: Mexico, Guerrero, Omilteme, 8000 ft. Distr. — Mexico (Guerrero, Omilteme).
- NEOTROPICUS Bezzi, 1905:426. Type-locality: Peru, Callanga; Bolivia, Cillutincara. Distr. — Peru (Callanga), Bolivia (Cillutincara).
- SCIAPTERUS Melander, 1927:23. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- SPINICOSTA Wheeler & Melander, 1901:374. Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas, 9500 ft. Distr. — Mexico (Guerrero, Sierra de las Aguas Escondidas).
- TYPICUS Wheeler & Melander, 1901:373. Type-locality: Mexico, Guerrero, Omilteme and Sierra de las Aguas Escondidas, 8000-9500 ft. Distr. — Mexico (Guerrero, Omilteme and Sierra de las Aguas Escondidas).
- XANTHOPODUS Melander, 1927:24. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

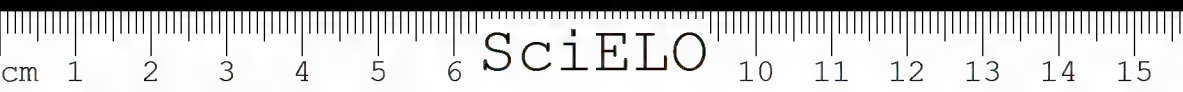
### Genus EUHYBUS Coquillett

- EUHYBUS Coquillett, 1895:437. Type-species, *Hybos purpureus* Walker (Coquillett, 1903:250).
- Euhybos*, emend.
- AGENS Curran, 1931:5. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.).
- ALGENS Curran, 1931:4. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.).
- ANTIQUUS Curran, 1931:2. Type-locality: Panama, Fort Davis. Distr. — Panama (Fort Davis).
- ARDOPEODES Melander, 1927:31. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- BAKERI (Wheeler & Melander), 1901:372 (as *Hybos triplex* Walker var. *bakeri*). Type-locality: "Mexico". Distr. — Mexico.



- CRASSIPES (Fabricius), 1805:146 (*Hybos*). Type-locality: "South America".  
Distr. — "South America".
- DERODACTYLUS Melander, 1927:33. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- DIMIDIATUS (Walker), 1852:205 (*Hybos*). Type-locality: "Brazil". Distr. — Brazil (Pará, Serra do Cachimbo). Refs. — Smith, 1962:217; 1964:50.
- DINOPUS Melander, 1927:31. Type-locality: Mexico, Vera Cruz, San Rafael. Distr. — Mexico (Vera Cruz, San Rafael).
- DONATO Curran, 1931:3. Type-locality: Panama, Canal Zone, Barro Colorado I., Fort Randolph. Distr. — Panama (Canal Zone, Barro Colorado I., Fort Randolph).
- ELECTUS (Melander), 1902:247 (*Hybos*). Type-locality: "Cuba". Distr. — Cuba, Puerto Rico. (Nom. nov. for *dimidiatus* Loew).  
*dimidiatus* Loew, 1861a:36 (*Hybos*) (nec *dimidiatus* Walker, 1852).  
Type-locality: "Cuba".  
var. *claripennis* Curran, 1928a:25. Type-locality: Puerto Rico, Adjuntas.
- EURYPTERUS (Bezzi), 1909b:306 (*Hybos*). Type-locality: Peru, mouth of the river Pachitea, Puerto Bermúdez, Pichis River; Bolivia, Mapiro, San Carlos and San Ernesto. Distr. — Peru (Pachitea River and Pichis River), Bolivia (Mapiro).
- GRYPHUS Melander, 1927:30. Type-locality: Panama, Canal Zone, Tabernilla. Distr. — Panama (Canal Zone, Tabernilla).
- HALLEXUS Smith, 1963:156, fig. 5. Type-locality: British Guiana, Kaieteur. Distr. — British Guiana (Kaieteur).
- HYALOPTERUS (Bezzi), 1905:425 (*Hybos*). Type-locality: Peru, Vilcanota. Distr. — Peru (Vilcanota).
- LATIPENNIS (Bezzi), 1909b:307 (*Hybos*). Type-locality: Bolivia, San Carlos, Sarampiuni, San Ernesto; Peru, Chanchamayo. Distr. — Bolivia (San Carlos, Sarampiuni, San Ernesto), Peru (Chanchamayo).
- LEPTOGASTER Melander, 1927:33. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- LEPTONEURA Melander, 1927:30. Type-locality: Mexico, Tabasco, Frontera. Distr. — Mexico (Tabasco, Frontera).
- LOEWI (Wheeler & Melander), 1901:372 (as *Hybos triplex* Walker var. *loewi*, listed as species by Melander, 1927:34). Type-locality: "Central America". Distr. — Mexico, Costa Rica.  
*triplex* var. Loew, 1861a:36 (*Hybos*).
- MAKAURIENSIS Smith, 1963:158, fig. 8. Type-locality: British Guiana, Makauria R. Distr. — British Guiana (Makauria R.).
- NEGUNDUS Curran, 1931:5. Type-locality: Panama, Canal Zone, Barro Colorado I., Patilla Point. Distr. — Panama (Canal Zone, Barro Colorado I., Patilla Point).
- OCREATUS Melander, 1927:26. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

- PANAMENSIS Curran, 1931:6. Type-locality: Panama, France Field. Distr. — Panama (France Field).
- PICEUS (Wiedemann), 1830:647 (*Hybos*) (placed in *Lactistomyia* by Melander, 1927). Type-locality: Brazil, Caçapava. Distr. — Brazil. Refs. — Smith, 1962:218; 1964:50, figs. 1-2 (male wing and genitalia).  
*integer* Walker, 1852:205 (*Hybos*). Type-locality: "Brazil".
- PILOSIFORMIS (Bezzi), 1909:308 (*Hybos*). Type-locality: Peru, Ucayali River, Unini, 300 m.; Chanchamayo, 800 m. Distr. — Peru (Ucayali River, Unini and Chanchamayo).
- PILOSUS (Schiner), 1868:202 (*Hybos*). Type-locality: "Colombia". Distr. — Colombia, Bolivia (Mapiri, San Carlos and San Ernesto).
- RICHARDSI Smith, 1963:157, fig. 6. Type-locality: British Guiana, Kaieteur. Distr. — British Guiana (Kaieteur).
- SCHILD Melander, 1927:31. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- SMARTI Smith, 1963:157, fig. 7. Type-locality: British Guiana, Mazaruni. Distr. — British Guiana (Mazaruni).
- SMITHI (Wheeler & Melander), 1901:372 (as *Hybos triplex* Walker var. *smithi*). Type-locality: Mexico, near Vera Cruz. Distr. — Mexico (near Vera Cruz).
- SPINIGER Melander, 1927:32. Type-locality: Jamaica, Linguanea plain; Puerto Rico, Utuado. Distr. — Jamaica (Linguanea plain), Puerto Rico (Utuado).
- SPINOSUS (Curran), 1928a:25 (*Hybos*). Type-locality: Puerto Rico, Adjuntas. Distr. — Puerto Rico (Adjuntas). N. comb.
- STIGMATICUS (Schiner), 1868:202 (*Hybos*). Type-locality: "Colombia". Distr. — Colombia.
- SUBJECTUS (Walker), 1849:486 (*Hybos*). Type-locality: Canada, Ontario. St. Martin's Falls, Albany River, Hudson's Bay. Distr. — E. North America, Ontario to New Hampshire, south to Florida; Puerto Rico (Utuado) (Coquillett, 1900:251).
- TABASCENSIS (Wheeler & Melander), 1901:372 (as *Hybos triplex* Walker var. *tabascensis*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Tabasco, Teapa).
- THRIXOTHRIX Melander, 1927:31. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- TRIPLEX (Walker), 1849:486 (*Hybos*). Type-locality: "South America". Distr. — North, Central and South America.
- VERRUCICRUS Melander, 1927:26. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba), Panama. Ref. — Curran, 1931.
- VITRIPENNIS Curran, 1931:3. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.).
- YUCATANUS (Wheeler & Melander), 1901:372 (as *Hybos triplex* Walker var. *yucatanus*). Type-locality: Mexico, Yucatán. Distr. — Mexico (Yucatán).



## Genus CERATHYBOS Bezzi

CERATHYBOS Bezzi, 1909b:303. Type-species, *schnusei* Bezzi (mon.).

SCHNUSEI Bezzi, 1909b:303. Type-locality: Peru, Ucayali River, Unini. Distr. — Peru (Ucayali River, Unini).

## Genus LACTISTOMYIA Melander

LACTISTOMYIA Melander, 1902:250. Type-species, *insolita* Melander (mon.).

DIMIDIATA (Bellardi), 1861:97 (*Hybos*). Type-locality: "Mexico". Distr. — Mexico.

*sequens* Melander, 1902:249 (*Hybos*). Type-locality: "Mexico".

HYALINA Bezzi, 1909b:312. Type-locality: Peru, Pichis River, Puerto Bermúdez, 300 m. Distr. — Peru (Pichis River, Puerto Bermúdez).

INSOLITA Melander, 1902:251. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso, Chapada). Ref. — Melander, 1927: pl. 5, fig. 45 (whole insect).

MAMMIFERA Curran, 1931:7. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.).

NIGRIPES Curran, 1931:7. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.).

PANAMENSIS Curran, 1931:8. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.).

SERRATA Bezzi, 1909b:312. Type-locality: Peru, mouth of river Pachitea, 150 m, Ucayali River, 300 m. Distr. — Peru (mouth of Pachitea, Ucayali River), British Guiana (Kartabo). Ref. — Curran, 1934.

## Subfamily OCYDROMIINAE

### Genus TRICHINA Meigen

TRICHINA Meigen, 1830:335. Type-species, *clavipes* Meigen (Rondani, 1856:152).

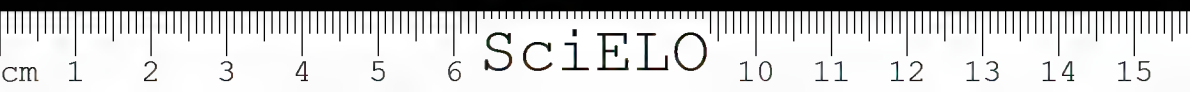
ABDOMINALIS Collin, 1933:40. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I. and Peulla).

DIGNA Collin, 1933:36, fig. 8b. Type-locality: Chile, Casa Pangue. Distr. — Chile (Casa Pangue).

DIGRESSA Collin, 1933:37. Type-locality: Chile, Puerto Montt. Distr. — Chile (Puerto Montt).

DISTINCTA Collin, 1933:45. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I.).

?ELEGANS (Bigot), 1888:21, pl. 3, fig. 5 (*Ocydromia*). Type-locality: Cape Horn. Distr. — Cape Horn. Refs. — Bezzi (1905:458) places this species in ?*Euthyneura* Macquart. Collin (1933:36) suggests that it probably belongs to *Trichina* Meigen.



- FIDA Collin, 1933:41. Type-locality: Argentina, L. Nahuel Huapi. Distr. — Chile (Casa Pangué), Argentina (L. Nahuel Huapi, Puerto Blest).
- INDIGA Collin, 1933:45. Type-locality: Argentina, L. Correntoso. Distr. — Argentina (L. Correntoso).
- INSIGNIS Collin, 1933:42. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest. Distr. — Argentina (L. Nahuel Huapi, Puerto Blest).
- INSONS Collin, 1933:40. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué, Puerto Varas, Ensenada, Castro).
- LAETA Collin, 1933:42. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).
- MEDIA Collin, 1933:44. Type-locality: Chile, Peulla. Distr. — Chile (Peulla).
- OBSCURATA Collin, 1933:38, figs. 9a-d. Type-locality: Argentina, Puerto Blest. Distr. — Argentina (L. Nahuel Huapi, eastern end, Puerto Blest, L. Correntoso, L. Gutierrez).
- sp.* Collin, 1933:43. Locality: Chile, Casa Pangué.

#### Genus LEPTOPEZA Macquart

- LEPTOPEZA Macquart, 1827:143 (as *Lemtopeza*; emend. Macquart, 1834:320). Type-species, *Ocydromia flavipes* Meigen (mon.) = *ruficollis* (Meigen).
- RIVOSA (Bigot), 1888:21 (*Lemtopeza*). Type-locality: Cape Horn. Distr. — Cape Horn. Ref. — Collin (1933:34) who suggests that this species (of which the type appears to be lost) probably belongs to *Oropezella* Collin or *Hoplopeza* Bezzi.

#### Genus OROPEZELLA Collin

- OROPEZELLA Collin, 1926:214. Type-species, *Leptopeza sphenoptera* Loew (orig. des.). [See also *Leptopeza*].
- ABDOMINALIS Collin, 1933:46. Type-locality: Chile, Peulla. Distr. — Chile (Peulla and Casa Pangué).
- ANNULITARSIS Smith, 1962:222, fig. 22. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- ARARA Smith, 1962:222, fig. 23. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- BILOBA Smith, 1962:220, figs. 19-20. Type-locality: Brazil, São Paulo, Cubatão; Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Cubatão; Santa Catarina, Nova Teutônia).
- MARGINATA Smith, 1962:221, fig. 21. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- METALLICA Smith, 1962:221. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- sp.* Smith, 1963:158. Locality: British Guiana, Makauria.



- TENUIPES Collin, 1933:63. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I., Castro).
- FESTACEUS (Philippi), 1865:763 (*Brachystoma*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Casa Pangue, Chiloe I.), Argentina (Rio Negro, L. Correntoso and Bariloche). Ref. — Collin, 1933:61.
- THORACICUS (Philippi), 1865:764 (*Brachystoma*, subg. *Heterophlebus*). Type-locality: Chile, San Juan. Distr. — Chile (S. Juan; Llanquihue, Casa Pangue), Argentina (Rio Negro, L. Nahuel Huapi, Puerto Blest).
- VERSABILIS Collin, 1933:57, figs. 11b, i. Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Chile (Magallanes), Argentina (Rio Negro, Bariloche, L. Nahuel Huapi, Rio Grande, Tierra del Fuego, Estancia Viamonte, Patagonia, Chubut, Valle del L. Blanco).
- VERSCOLOR Collin, 1933:56, fig. 11a. Type-locality: Argentina, Rio Negro, L. Nahuel Huapi, eastern end. Distr. — Argentina (Rio Negro, L. Nahuel Huapi, Bariloche; Patagonia, Chubut, Valle del L. Blanco).
- VITTIGERUS (Philippi), 1865:765 (*Brachystoma*, subg. *Heterophlebus*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia).

#### Genus ALLOCHROTUS Collin

- ALLOCHROTUS Collin, 1933:192. Type-species, *Empis poecila* Philippi (orig. des.).
- POECILUS (Philippi), 1865:753 (*Empis*). Type-locality: Chile, Corral. Distr. — Chile (Corral). Ref. — Collin, 1933:193, fig. 41 (male genitalia).

#### Genus EMPIDADELPHA Collin

- EMPIDADELPHA Collin, 1928:105. Type-species, *propria* Collin (orig. des.).
- SOBRINA Collin, 1933:225. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I., Ancud, Castro and Puntra; Puerto Montt).

#### Genus OPEATOCERATA Melander

- OPEATOCERATA Melander, 1927:134. Type-species, *Empis rubida* Wheeler & Melander (orig. des.).
- RUBIDA (Wheeler & Melander), 1901:368 (*Empis*). Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico, Panama, Bolivia, Costa Rica.

#### Genus SPHICOSA Philippi

- SPHICOSA Philippi, 1865:751. Type-species, *nigra* Philippi (orig. des.).
- ALBIPENNIS Smith, 1962:258, fig. 67. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).

- CORIACEA (Bigot), 1889:126 (*Iteaphila*). Type-locality: "Chile". Distr. — Chile. Ref. — Collin, 1933:274, fig. 61e (male genitalia).
- GLOBOSA Smith, 1962:257, fig. 66. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- LECTA Collin, 1933:272, fig. 61a-d. Type-locality: Chile, Concepción. Distr. — Chile (Concepción).
- LONGIROSTRIS Smith, 1962:257. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).
- NIGRA Philippi, 1865:751, pl. 28, fig. 46. Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Marga-Marga). Ref. — Collin, 1933:271.
- PLAUMANNI Smith, 1962:259, fig. 68. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- SETIPALPIS Smith, 1962:257. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- UNISETA Smith, 1962:259, fig. 69. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).

#### Genus TRICHOHILARA Collin

- TRICHOHILARA Collin, 1933:174. Type-species, *metapleuralis* Collin (orig. des.).
- METAPLEURALIS Collin, 1933:174, figs. 36a-c. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez, Bariloche, L. Correntoso).

#### Genus LAMPREMPIS Wheeler & Melander

- LAMPREMPIS Wheeler & Melander, 1901:366. Type-species, *chichimeca* Wheeler & Melander (Coquillett, 1903:252).
- BENIGNA (Osten Sacken), 1887:215 (*Empis*). Type-locality: Mexico, Durango, Ciudad. Distr. — Mexico (Durango, Ciudad).
- BEZZI Smith, 1962:248, fig. 57. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- BORACEA Smith, 1962:250. Type-locality: Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. — Brazil (São Paulo, Salesópolis).
- CALOPODA Bezzi, 1905:436. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- CHICHIMECA Wheeler & Melander, 1901:368. Type-locality: Mexico, Guerrero, Amula, 6000 ft. Distr. — Mexico (Guerrero, Amula), Bolivia.  
var. *meridionalls* Engcl, 1928:245. Type-locality: "Bolivia". Distr. — Bolivia.
- COLUMBI (Schiner), 1868:205 (*Empis*). Type-locality: "Colombia". Distr. — Colombia.
- CUCAMA Smith, 1962:251. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).

- CYANEA (Bellardi), 1861:98 (*Empis*). Type-locality: Mexico, Angang. Distr. — Mexico (Angang), Bolivia. Ref. — Engel, 1928:247 (descr. of male).
- DIAPHORINA (Osten Sacken), 1887:215 (*Empis*). Type-locality: Mexico. Durango, Ciudad, 8100 ft. Distr. — Mexico (Durango, Ciudad).
- DOLICHOPODINA (Schiner), 1868:215 (*Empis*). Type-locality: "South America". Distr. — "South America".
- FURCATICAUDA Smith, 1962:251, fig. 59. Type-locality: Brazil, Minas Gerais, Sapucaí-Mirim, Cidade Azul, 1400 m. Distr. — Brazil (Minas Gerais, Sapucaí-Mirim, Cidade Azul).
- GEMMEA Bezzi, 1905:438. Type-locality: Bolivia, Coroico. Distr. — Bolivia (Coroico).
- LINDNERI Engel, 1928:248. Type-locality: "Bolivia". Distr. — Bolivia.
- SETIGERA Coquillett, 1903:272. Type-locality: Cuba, Baracoa. Distr. — Cuba (Baracoa).
- SUAVIS (Loew), 1869:33 (*Empis*). Type-locality: "Mexico". Distr. — Mexico, Bolivia.
- SUPERBA (Loew), 1861a:34 (*Empis*). Type-locality: "Cuba". Distr. — Cuba.
- TRUNCATUS Smith, 1962:249, fig. 58. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- TUBERIFERA Bezzi, 1905:435, fig. 1. Type-locality: Peru, Vilcanota. Distr. — Peru (Vilcanota).
- VIOLACEA (Loew), 1869:32 (*Empis*). Type-locality: "Mexico". Distr. — Mexico.
- VIRIDIS (Coquillett), 1895:395 (*Hilara*). Type-locality: Jamaica, Kingston. Distr. — Jamaica (Kingston).

#### Genus EMPIS Linnaeus

- EMPIS Linnaeus, 1758:603. Type-species, *pennipes* Linnaeus (Latreille, 1810:443).
- Platyptera* Meigen, 1803:269. Type-species, *Empis borealis* Linnaeus (Melander, 1927:144) [By tautonymy, *Empis platyptera* Panzer is the proper type-species, but acceptance of that fixation would require that *Platyptera* replace *Rhamphomyia* Meigen, 1822. Because of the size of the latter genus and extensive usage of the name, suspension of the rules should be requested].
- Pachymeria* Stephens, 1829:55 (also 1829:262). Type-species, *Empis ruralis* Meigen (mon.) = *femorata* Fabricius.
- Eriogaster* Macquart, 1838:162 (1839:278) (preocc. Germar, 1811). Type-species, *Empis laniventris* Eschscholtz (orig. des.).
- Eniplempis* Bigot, 1880:xlvi. Type-species, *mira* Bigot (mon.).
- Empimorpha* Coquillett, 1895:396. Type-species, *comantis* Coquillett (orig. des.).

- Empis*, subg. *PTEREMPIS* Bezzi, 1909c:87. Type-species, *Empis pennipes* Linnaeus (Engel, 1945:341).
- Empis*, subg. *XANTHEMPIS* Bezzi, 1909c:88. Type-species, *Empis stercorea* Linnaeus (orig. des.).
- Empis*, subg. *ANACROSTICHUS* Bezzi, 1909c:93. Type-species, *Empis nitida* Meigen (orig. des.).
- Empis*, subg. *POLYBLEPHARIS* Bezzi, 1909c:95. Type-species, *Empis albicans* Meigen (orig. des.).
- Empis*, subg. *ARGYRANDRUS* Bezzi, 1909c:100. Type-species, *Empis dispar* Scholz (orig. des.).
- Empis*, subg. *COPTOPHLEBIA* Bezzi, 1909c:100. Type-species, *Empis hyalipennis* Fallén (orig. des.).
- Empis*, subg. *ACALLOMYIA* Melander, 1927:140. Type-species, *Iteaphila peregrina* Melander (orig. des.).
- Empis*, subg. *PYRREMPIS* Melander, 1927:144. Type-species, *Empis rufescens* Loew (orig. des.).

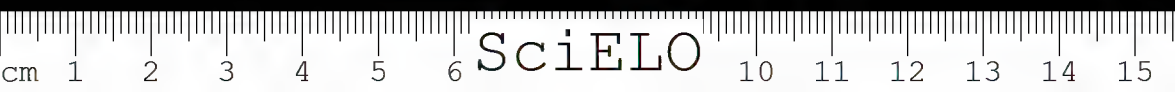
No attempt has yet been made to split *Empis* into subgenera in the Neotropical region, but those subgenera likely to be represented are listed above.

- AMBIGUA* Bezzi, 1905:439. Type-locality: Peru, Vilcanota. Distr. — Peru (Vilcanota).
- ANGUSTIPENNIS* Bezzi, 1909b:351. Type-locality: Peru, Umahuankiali, Urubamba River, 500 m. Distr. — Peru (Umahuankiali, Urubamba River).
- ANNULIPES* Wheeler & Melander, 1901:369. Type-locality: Mexico, Guerrero, Amula, 6000 ft. Distr. — Mexico (Guerrero, Amula).
- ANTHRACINA* Bigot, 1888:19. Type-locality: Tierra del Fuego, Orange Bay. Distr. — Tierra del Fuego (Orange Bay). Ref. — Collin, 1933:254.
- ATRA* Wiedemann, 1830:1. Type-locality: "St. Croix". Distr. — St. Croix, Brazil. Ref. — Smith, 1964:51, fig. 3 (male genitalia).
- penthophora* Wiedemann, 1830:4. Type-locality: "Brazil".
- ATRIFEMUR* Wheeler & Melander, 1901:370. Type-locality: Mexico, Guerrero, Xucumanatlan, 7000 ft. Distr. — Mexico (Guerrero, Xucumanatlan).
- AZTECA* Wheeler & Melander, 1901:369. Type-locality: Mexico, Guerrero, Amula, 6000 ft. Distr. — Mexico (Guerrero, Amula).
- BICOLOR* Bellardi, 1861:98. Type-locality: Mexico, Cuantla. Distr. — Mexico (Cuantla).
- BULLATA* Bezzi, 1905:442. Type-locality: Bolivia, Coroico. Distr. — Bolivia (Coroico).
- CHIRAGRA* Bezzi, 1909b:353. Type-locality: Peru, valley of Lares, 1000-2000 m. Distr. — Peru (valley of Lares).
- COPIOSA* *COPIOSA* Collin, 1933:261, figs. 59a-d. Type-locality: Argentina, L. Correntoso. Distr. — Chile (Casa Pangué), Argentina (L. Correntoso, Bariloche, L. Gutierrez, L. Nahuel Huapi, Puerto Blest).
- ssp. PROMINENS* Collin, 1933:262, figs. 59e-h. Type-locality: Chile, Casa Pangué; Argentina, Puerto Blest.



- COXALIS Thomson, 1868:471. Type-locality: "Patagonia". Distr. — Patagonia, Tierra del Fuego (Rio Grande, Estancia Viamonte). Ref. — Collin, 1933:246.
- CUCULLATA Collin, 1933:257, fig. 57a. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).
- DISJUNCTA Collin, 1933:270. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).
- DISTINCTA Collin, 1933:252. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I., Castro, Ancud).
- DOLOROSA Wheeler & Melander, 1901:370. Type-locality: Mexico, Guerrero, Amula, 6000-8000 ft. Distr. — Mexico (Guerrero, Amula).
- ?DUMETORUM Philippi, 1865:756. Type-locality: Chile, Santiago. Distr. — Chile (Santiago).
- FIMBRIA Walker, 1852:204. Type-locality: "Brazil". Distr. — Brazil.
- ?FLAVINERVIS Philippi, 1865:755. Type-locality: Chile, Colchagua. Distr. — Chilo (Colchagua). Ref. — Collin, 1933:230 (key).
- FULVICOLLIS Collin, 1933:231, figs. 50a-b. Type-locality: Argentina, L. Correntoso. Distr. — Chile (Casa Pangué, Los Loros, Santiago), Argentina (L. Correntoso, L. Gutierrez).
- GRACILIPES Philippi, 1865:755. Type-locality: Chile, Valdivia. Distr. — Chile (Puntra, Ancud, Chiloe I., Castro, Puerto Varas, Valdivia). Ref. — Collin, 1933:266, figs. 60a-b (male abdominal tergites and genitalia).
- HUMERALIS Collin, 1933:251, figs. 56a-b. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas, Peulla, Casa Pangué, Chiloe I., Castro).
- IMPAR Melander, 1946:112 (subg. *Coptophlebia*). Type-locality: Costa Rica, Pedregosa. Distr. — Costa Rica (Pedregosa).
- IMPUTATA Collin, 1933:248, fig. 56d. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest; Chile, Casa Pangué; Tierra del Fuego, L. Yuvin. Distr. — Chile (Casa Pangué), Argentina (L. Nahuel Huapi, Puerto Blest), Tierra del Fuego (L. Yuvin).
- INDUTA Bezzi, 1909b:343, 348. Type-locality: Peru, Pichis River, Puerto Bermúdez, 300 m. Distr. — Peru (Pichis River, Puerto Bermúdez).
- ?LANDBECKI Philippi, 1865:754. Type-locality: Chile, Valdivia. Distr. — Chile (Peulla, Casa Pangué, Mechuque I., Chiloe I.), Argentina (Bariloche, L. Nahuel Huapi, Puerto Blest).
- LANGUESCENS Collin, 1933:262, fig. 59i. Type-locality: Chile, Peulla. Distr. Chile (Valdivia). Ref. — Collin, 1933:230 (key).
- LATERALIS Collin, 1933:268. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I., Castro).
- LEUCOSTIGMA Bezzi, 1905b:347, 356. Type-locality: Peru, Cuzco, 3500 m. Distr. — Peru (Cuzco).
- LIBERALIS Collin, 1933:247, figs. 55a-d. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué, Peulla, Castro), Argentina (L. Nahuel Huapi, Puerto Blest, L. Correntoso).

- LIODES Bezzi, 1909b:344, 350. Type-locality: Peru, Pichis River, Puerto Bermúdez, 300 m. Distr. — Peru (Pichis River, Puerto Bermúdez).
- LOBALIS Thomson, 1869:472. Type-locality: "Patagonia". Distr. — Patagonia. Ref. — Collin, 1933:258.
- LUCIDILABRIS Bezzi, 1905:440. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- ?LUGENS Philippi, 1865:760 (? *Hilara*). Type-locality: Chile, Valdivia, Cerral. Distr. — Chile (Valdivia, Corral).
- LUTEITHORAX Collin, 1933:249, figs. 56c, e. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas, Peulla, Ensenada).
- MACRORRHYNCHA Philippi, 1865:757, pl. 28, fig. 47. Type locality: Chile, Valdivia. Distr. — Chile (Valdivia, Casa Pangué, Ensenada, Chiloe I., Castro). Ref. — Collin, 1933:244, fig. 54a (male genitalia).
- MACRURA Bigot, 1889:131. Type-locality: Argentina, Buenos Aires. Distr. — Argentina (Buenos Aires). Ref. — Collin, 1933:239, fig. 52b (male genitalia).
- MAJERONA Smith, 1962:254, fig. 65. Type-locality: Brazil, São Paulo, Barueri Distr. — Brazil (São Paulo).
- MARAUUA Smith, 1962:254, fig. 64. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- MICANS Schiner, 1868:204. Type-locality: "South America". Distr. — South America.
- MICROPYGA Bezzi, 1905:441. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- MIRIPES Collin, 1933:268. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I., Castro and Ancud).
- MODICA Collin, 1933:259, figs. 58b-c. Type-locality: Argentina, L. Correntoso. Distr. — Chile (Casa Pangué), Argentina (L. Correntoso, L. Nahuel Huapi, Puerto Blest, L. Gutierrez, Bariloche).
- MOLLITA Collin, 1933:269, figs. 60d-e. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest. Distr. — Chile (Casa Pangué, Peulla, Chiloe I., Castro), Argentina (L. Nahuel Huapi, Puerto Blest, L. Correntoso).
- MONTEZUMA Wheeler & Melander, 1901:369. Type-locality: Mexico, Jalisco, Santiago. Distr. — Mexico (Jalisco, Santiago).
- NIGRICOLOR Collin, 1933:253, fig. 57a. Type-locality: Chile, Ensenada. Distr. — Chile (Ensenada, Chiloe I., Ancud and Castro, Puerto Montt, Casa Pangué, Puntra).
- OCHROPUS Philippi, 1865:755. Type-locality: Chile, S. Cristoval, near Santiago. Distr. — Chile (S. Cristoval, near Santiago). Ref. — Collin, 1933:230 (key).
- OMISSA Collin, 1933:270. Type-locality: Chile, Peulla. Distr. — Chile (Peulla, ? Casa Pangué).
- OPTABILIS Collin, 1933:234, fig. 51b. Type-locality: Chile, S. Cristoval. Distr. — Chile (S. Cristoval).



- PACHYMERINA* Schiner, 1868:205. Type-locality: "South America". Distr. — South America.
- ?*PACHYSTOMA* Philippi, 1865:757. Type-locality: Chile, S. Cristoval. Distr. — Chile (S. Cristoval).
- PARALIS* Collin, 1933:256, fig. 57d. Type-locality: Chile, Chiloe I., Puntra. Distr. — Chile (Chiloe I., Puntra, Puerto Varas).
- PEGASUS* Osten Sacken, 1887:216. Type-locality: Panama, Volcán de Chiriqui, 2500 to 4000 ft. Distr. — Panama (Volcán de Chiriqui).
- PENNIVENTRIS* Bezzi, 1909b:352. Type-locality: Peru, Chanchamayo, 800 m. Distr. — Peru (Chanchamayo).
- PERPUSILLA* Collin, 1933:264. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest. Distr. — Chile (Casa Pangué), Argentina (L. Nahuel Huapi, Puerto Blest).
- POLITA* Macquart, 1838:162. Type-locality: "Chile". Distr. — Chile. Ref. — Collin, 1933:238, fig. 52a (male genitalia).  
*collina* Philippi, 1865:736. Type-locality: Chile, Santiago.
- PROMPTA* Collin, 1933:233, fig. 51a. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).
- PULLATA* Collin, 1933: 263, fig. 59j. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué, Peulla).
- QUADRIVITTATA* Lynch Arribálzaga, 1878:292. Type-locality: Argentina, Baradero, Palermo. Distr. — Argentina (Baradero, Palermo).
- RECORDABILIS* Collin, 1933:242, figs. 53a-b. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I., Castro and Puntra).
- RETROVERSA* Collin, 1933:241 fig. 53c. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche and L. Correntoso).
- SHUMANA* Smith, 1962:253, figs. 60-63. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- SFLOPTERA* Wiedemann, 1830:5. Type-locality: "Mexico". Distr. — Mexico.  
*picta* Loew, 1863:16. Type-locality: "Mexico".
- SPINIFERA* Bezzi, 1909b:346, 354. Type-locality: Peru, valley of Lares, 2000-3000 m. Distr. — Peru (valley of Lares).
- SQUAMIPES* Coquillett, 1903:271. Type-locality: Mexico, Chihuahua, Rio Piedras Verdes, Sierra Madre, 7500 ft. Distr. — Mexico (Chihuahua, Sierra Madre, Rio Piedras Verdes).
- THERMOPHILA* Wiedemann, 1830:4. Type-locality: Uruguay, Montevideo. Distr. — Uruguay (Montevideo).
- TOTIPENNIS* Bellardi, 1865:99. Type-locality: Mexico, Morelia. Distr. — Mexico (Morelia).
- TRIBULIS* Collin, 1933:256. Type-locality: Chile, Chiloe I., Puntra. Distr. — Chile (Chiloe I., Puntra).
- TRICHOSCELIS* Collin, 1933:265. Type-locality: Argentina, L. Nahuel Huapi, eastern end, Bariloche. Distr. — Argentina (L. Nahuel Huapi, Bariloche, L. Gutierrez, L. Correntoso).

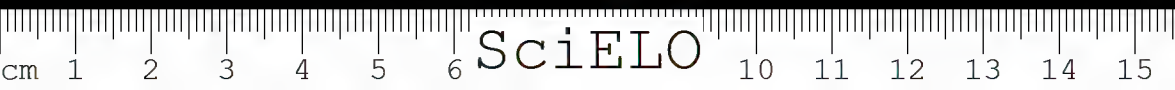
- URUGUAYENSIS Lynch Arribálzaga, 1878:293. Type-locality: Uruguay; Argentina, Baradero. Distr. — Uruguay, Argentina (Baradero).
- VALDIVIANA Philippi, 1865:755. Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia). Ref. — Collin, 1933:220 (key).
- VARIABILIS Bigot, 1857:291. Type-locality: "Chile". Distr. — Chile. Ref. — Collin, 1933:236, fig. 51c (male genitalia).
- VICINA Lynch Arribálzaga, 1878:294. Type-locality: Argentina, Baradero. Distr. — Argentina (Baradero).
- XOCHITL Wheeler & Melander, 1901:370. Type-locality: Mexico, Guerrero, Chilpancingo, 4600 ft. Distr. — Mexico (Guerrero, Chilpancingo).

### Genus RHAMPHOMYIA Meigen

- RHAMPHOMYIA Meigen, 1822:42. Type-species, *Empis sulcata* Meigen (Curtis, 1834: pl. 517).
- Megacyttarus* Bigot, 1880:xlvi. Type-species, *argenteus* Bigot (mon.) = *limbata* Loew.
- Neocota* Coquillett, 1895:434. Type-species, *weedii* Coquillett (orig. des.).
- Rhamphomyia*, subg. PARARHAMPHOMYIA Frey, 1922:33. Type-species, *Empis plumipes* Meigen [as Fallén (lapsus), orig. des.].
- Rhamphomyia*, subg. DASYRHAMPHOMYIA Frey, 1922:65. Type-species, *Empis vesiculosa* Fallén (orig. des.).
- Rhamphomyia*, subg. AMYDRONEURA Collin, 1926:216. Type-species, *eryophthalma* Meigen (orig. des.).

*Rhamphomyia* has been divided into several subgenera, but no serious attempt has yet been made to assign all the Neotropical species to these subgenera. Such assignments as have been made are indicated.

- ARGYRINA Bezzi, 1909b:334. Type-locality: Bolivia, Mapiri, Sarampiuni, 700 m. Distr. — Bolivia (Mapiri, Sarampiuni).
- BOLIVIANA Bezzi, 1905:429. Type-locality: Bolivia, Coroico. Distr. — Bolivia (Coroico).
- CAECA Collin, 1933:212, fig. 46a (subg. *Pararhamphomyia*). Type-locality: Argentina, L. Correntoso. Distr. — Argentina (L. Correntoso, L. Nahuel Huapi, Puerto Blest, Bariloche).
- CANDIDULA Collin, 1933:218 (subg. *Amydroneura*). Type-locality: Chile, Marga-Marga. Distr. — Central Chile.
- CARENIFERA Bezzi, 1909b:338. Type-locality: Chile, Corral (sea coast). Distr. — Chile (Corral).
- CARRERAI Smith, 1962:240, fig. 50 (as *carrerae*). Type-locality: Brazil, Goiás, Jataí. Distr. — Brazil (Goiás, Jataí).
- CATARINAE Smith, 1962:239, fig. 49. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- CYANOASTER Wheeler & Melander, 1901:371. Type-locality: Mexico, Guerrero, Omilteme, 8000 ft. Distr. — Mexico (Guerrero, Omilteme).

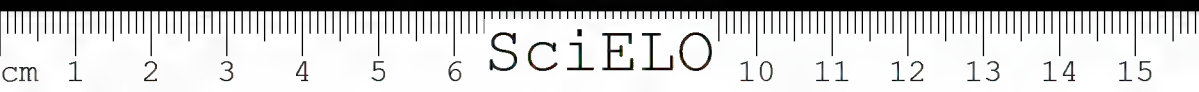




- EMINENS Collin, 1933:218, fig. 46e. Type-locality: Chile, Peulla. Distr. — Chile (Peulla).
- FURCIFER Wheeler & Melander, 1901:371. Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero, Omilteme).
- GALACTODES Bezzi, 1909b:332. Type-locality: Bolivia, Cordillera, 4000-5000 m. Distr. — Bolivia (Cordillera).
- GALBANATA Collin, 1933:216, fig. 46c (subg. *Pararhamphomyia*). Type-locality: Chile, Magallanes. Distr. — Chile (Magallanes).
- INTERSERTA Collin, 1933:213, fig. 46b (subg. *Pararhamphomyia*). Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche and L. Correntoso).
- LEUCOPHENGIA Bezzi, 1905:430. Type-locality: Bolivia, Coroico. Distr. — Bolivia (Coroico).
- MICRARGYRA Bezzi 1909b:333. Type-locality: Peru, Tarma, 3000 m. Distr. — Peru (Tarma).
- MOLLIS Collin, 1933:214 (subg. *Pararhamphomyia*). Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche and L. Nahuel Huapi, eastern end).
- MONSTROSA Bezzi, 1909b:339, fig. 3. Type-locality: Peru, Tarma, 3000 m. Distr. — Peru (Tarma).
- PENICILLATA Bezzi, 1909b:336. Type-locality: Bolivia, Cordillera, 4000-5000 m. Distr. — Bolivia (Cordillera).
- PORTERI Brèthes, 1924:106. Type-locality: Chile, Chiloe I. Distr. — Chile (Chiloe I.).
- SEPOSITA Collin, 1933:216, fig. 46d. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).
- TOLTECA Wheeler & Melander, 1901:371. Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas, 9500 ft. Distr. — Mexico (Guerrero, Sierra de las Aguas Escondidas).
- TYMPANICA Bezzi, 1909b:337. Type-locality: Bolivia, Mapiri, Sarampiuni, 700 m. Distr. — Bolivia (Mapiri, Sarampiuni).
- VERAE Smith, 1962:238, figs. 47-48. Type-locality: Brazil, Santa Catarina Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- VILLOSIPES Bezzi, 1905:430. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).

#### Genus *APLOMERA* Macquart

- APLOMERA* Macquart, 1838:163. Type-species, *gayi* Macquart (mon.).  
*Haplomera*, emend.
- Anodontina* Macquart, 1838: pl. 13, fig. 4. Type-species, *gayi* Macquart (mon.) [The name *Anodontina* was only used in the plate, but is corrected in the text, p. 163].
- ?*BRACHYSTOMA* (Philippi), 1865:755 (*Empis*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia).



- BREVIMANA (Collin), 1933:168, figs. 35c-d. (*Haplomera*). Type-locality: "Chile". Distr. — Chile.
- CHILENSIS (Bezzi), 1909b:374 (*Haplomera*). Type-locality: Chile, Valparaiso, Concepción, Quillota. Distr. — Chile (Valparaiso, Concepción, Quillota).
- CONSPICUA (Collin), 1933:172 (*Haplomera*). Type-locality: Chile, Peulla. Distr. — Chile (Peulla).
- DICHROA (Collin), 1933:171 (*Haplomera*). Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué), Argentina (L. Correntoso).
- DIFFICILIS (Collin), 1933:166 (*Haplomera*). Type-locality: Chile, Peulla. Distr. — Chile (Peulla, Casa Pangué, Puerto Varas).
- GAYI Macquart, 1838:163, pl. 13, fig. 4. Type-locality: "Chile". Distr. — Chile. Ref. — Collin, 1933:162, fig. 32b (male genitalia), 33a-d (male: face, antenna; female: hind leg, wing).
- nudipes* Macquart, 1838:161 (*Empis*, ♀ of *gayi*). Type-locality: "Chile".
- GYMNOPODA (Bezzi), 1905:448 (*Haplomera*). Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- LINEATA (Collin), 1933:172 (*Haplomera*). Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).
- MACROCERA (Bigot), 1888:20 (*Hilara*). Type-locality: Cape Horn. Distr. — Cape Horn. Ref. — Collin, 1933:167, figs. 35a-b (male antenna and genitalia).
- MEDIALIS (Collin), 1933:172 (*Haplomera*). Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas, Chiloe I.: Ancud, Puntra).
- NOTOGRAMMA (Bezzi), 1905:449 (*Haplomera*). Type-locality: Bolivia, Cillutincara. Distr. — Bolivia (Cillutincara).
- PACHYMERA (Macquart), 1838:277 (*Empis*). Type-locality: "Chile". Distr. — Chile.
- PARTICULARIS (Collin), 1933:170, figs. 35e-f (*Haplomera*). Type-locality: "Chile". Distr. — Chile.
- SCHROTTKYI (Bezzi), 1909a:319 (*Haplomera*). Type-locality: Paraguay, Puerto Bertoni, Alto Paraná. Distr. — Paraguay (Puerto Bertoni, Alto Paraná).
- sp.* Collin, 1933:173 (*Haplomera*). Locality: Argentina, Bariloche.
- SPINULOSA (Philippi), 1865:757 (*Empis*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Tierra del Fuego, Rio Grande, Estancia Viamonte). Ref. — Collin, 1933:161, fig. 32a (male genitalia).
- ?VARASI (Brèthes), 1916:79 (*Haplomera*). Type-locality: Chile, Curicó. Distr. — Chile (Curicó).

#### Genus CLINORHAMPHA Collin

- CLINORHAMPHA Collin, 1933:220. Type-species, *merita* Collin (orig. des.).
- INEVOLUTA Collin, 1933:222, fig. 47d. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).

MERITA Collin, 1933:220, fig. 47a. Type-locality: Chile, Ancud; Argentina, L. Nahuel Huapi, Puerto Blest. Distr. — Chile (Ancud), Argentina (L. Nahuel Huapi, Puerto Blest, L. Correntoso).

NECOPINATA Collin, 1933:222, fig. 47b. Type-locality: Chile, Peulla. Distr. — Chile (Peulla).

### Genus APALOCNEMIS Philippi

APALOCNEMIS Philippi, 1865:752. Type-species, *obscura* Philippi (mon.).

*Timalphes* Melander, 1927:97. Type-species, *Clinocera fumosa* Hutton (orig. des.).

?BICOLOR (Bigot), 1888:19 (*Sphicosa*). Type-locality: Cape Horn. Distr. — Cape Horn.

CINGULATA Bezzi, 1909b:383, fig. 6. Type-locality: Peru, Sicuaní, 3500 m, Cuzco, 3500 m; Bolivia, La Paz, 3700 m. Distr. — Peru (Sicuaní, Cuzco), Bolivia (La Paz).

CIRCUMSPINOSA Collin, 1933:88, fig. 16f. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Gutierrez), Chile (Tierra del Fuego, Puerto Blest, L. Yuvin).

DISCRETA Collin, 1933:83, fig. 15d. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).

DISTINCTA Collin, 1933:76, fig. 15a. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I., Castro).

ECHINATA Collin, 1933:85. Type-locality: Chile, Chiloe I., Puntra. Distr. — Chile (Chiloe I., Puntra).

ELONGATA Collin, 1933:81, figs. 15c, 16d. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Correntoso, L. Gutierrez).

HALTERATA (Becker), 1919:168 (*Gloma*). Type-locality: Ecuador, Tulcán, 3002 m. Distr. — Ecuador (Tulcán).

HOLOSERICEA (Thomson), 1869:473 (*Hilara*). Type-locality: "Patagonia". Distr. — Patagonia. Ref. — Collin, 1933:90.

INDEFINITA Collin, 1933:91, fig. 15f. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Peulla, Puerto Montt, Chiloe I., Ancud).

INGENIOSA Collin, 1933:84, figs. 15i, 16i. Type-locality: Argentina, L. Correntoso. Distr. — Argentina (L. Correntoso).

INNOCUA Collin, 1933:92, fig. 15g. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas, Chiloe I., Castro).

MAURA MAURA Collin, 1933:79, figs. 16a-c. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Gutierrez, L. Correntoso).

ssp. INTONSA Collin, 1933:80. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué, Chiloe I., Ancud).

MEDIOCRIS Collin, 1933:93, fig. 16g-h. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Nahuel Huapi).

OBSCURA Philippi, 1865:753, pl. 29, fig. 55. Type-locality: "Chile". Distr. — Chile.

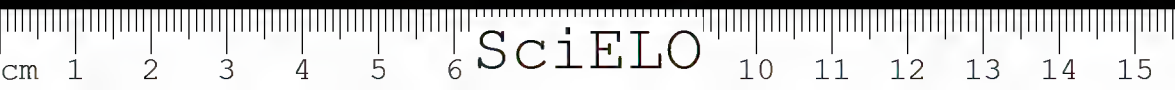
- OCHRACEA (Bigot), 1888:22, pl. 3, fig. 4 (*Heleodromia*). Type-locality: Cape Horn. Distr. — Cape Horn.
- PHILIPPI Smith, 1962:225. Type-locality: Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. — Brazil (São Paulo, Salesópolis).
- PLORATOR Collin, 1933:86, fig. 15h, 16e. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — Chile (Concepción, Chiloe I.: Ancud, Castro, Península de Magallanes), Argentina (L. Nahuel Huapi, Bariloche, L. Gutierrez).
- var. *halterata* Collin, 1933:88 (preocc. Becker, 1919). Type-locality: Argentina, L. Nahuel Huapi, eastern end.
- RACEMATA Collin, 1933:93, fig. 15j. Type-locality: Uruguay, Montevideo. Distr. — Uruguay (Montevideo), Argentina (Viedma).
- ROSTRATA Collin, 1933:77, fig. 15b. Type-locality: Chile, Peulla. Distr. — Chile (Peulla, Casa Pangue), Argentina (Bariloche).
- SALESOPOLIS Smith, 1962:226. Type-locality: Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. — Brazil (São Paulo, Salesópolis).
- SOLITARIA Collin, 1933:80. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).
- VARIEGATA Bezzi, 1905:450, fig. 2. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- XANTHOGYNA Collin, 1933:88. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).

#### Genus HYSTRICHONOTUS Collin

- HYSTRICHONOTUS Collin, 1933:94. Type-species, *revelator* Collin (orig. des.).
- REVELATOR Collin, 1933:95, figs. 17a-b. Type-locality: Chile, Chiloe I., Castro, Ancud. Distr. — Chile (Chiloe I., Castro, Ancud).

#### Genus MACROSTOMUS Wiedemann

- MACROSTOMUS Wiedemann, 1817:59. Type-species, *Hybos ferrugineus* Fabricius (mon.).
- Porphyrochroa* Melander, 1927:137. Type-species, *Sciodromia palliata* Coquillett (orig. des.). N. SYN. [Type examined in British Museum (Natural History)].
- Axelempis* Curran, 1931:9. Type-species, *fulvithorax* Curran (orig. des.).
- ?ABDOMINALIS (Bezzi), 1905:433 (*Rhamphomyia*). Type-locality: Bolivia, Coroico. Distr. — Bolivia (Coroico).
- APICALIS (Bezzi), 1909b:330 (*Rhamphomyia*). Type-locality: Peru, Pichis River, Puerto Yessup, 300 m. Distr. — Peru (Pichis River, Puerto Yessup).
- ARCUCINCTUS (Bezzi), 1909b:331 (*Rhamphomyia*). Type-locality: Bolivia, Mapiri, Sarampiuni, 700 m. Distr. — Bolivia (Mapiri, Sarampiuni).



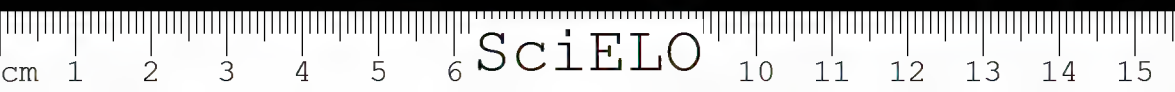


- ARGYROTARSIS (Bezzi), 1909b:324, fig. 2 (*Rhamphomyia*). Type-locality: Bolivia, Mapiri, San Carlos, 800-1200 m. Distr. — Bolivia (Mapiri, San Carlos).
- BARUERI Smith, 1962:245, fig. 55. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).
- CYSTICERCUS Smith, 1963:158, figs. 9, 11. Type-locality: British Guiana, Kaieteur, Mazaruni, Tukeit, gorge of Potaro. Distr. — British Guiana (Kaieteur, Mazaruni, Tukeit).
- DIGITATUS Smith, 1962:243, figs. 51-52. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- DISTINCTIPENNIS Smith, 1962:244, fig. 54. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil (São Paulo, Campos do Jordão).
- DIVISUS Smith, 1962:243. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).
- ?DOLICHOCERUS (Bezzi), 1905:431 (*Rhamphomyia*). Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- DOLICHOPTERUS (Bezzi), 1909b:328 (*Rhamphomyia*). Type-locality: Bolivia, Mapiri, San Carlos, 800-1200 m, Sarampiuni, 700 m. Distr. — Bolivia (Mapiri, San Carlos and Sarampiuni).
- FASCIVENTRIS (Curran), 1931:11 (*Axelempis*). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.).
- FERRUGINEUS (Fabricius), 1805:146 (*Hybos*). Type-locality: "South America". Distr. — British Guiana (Amatuk Falls, Potaro River). Ref. — Smith, 1961:55, figs. 5-6 (male wing and genitalia).
- FULVITHORAX (Curran), 1931:10 (*Axelempis*). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.). Ref. — Smith, 1961:54, fig. 7 (male genitalia).
- GRALLATRIX (Bezzi), 1909b:326 (*Rhamphomyia*). Type-locality: Bolivia, Mapiri, San Carlos, 700 m. Distr. — Bolivia (Mapiri, San Carlos).
- JURI Smith, 1962:248. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- LIMBIPENNIS (Bezzi), 1909b:329 (*Rhamphomyia*). Type-locality: Peru, Pichis River, Puerto Bermúdez, 300 m, Ucayali River, Unini, 300 m, mouth of Pachitea, 150 m; Bolivia, San Carlos, Sarampiuni, 700-1200 m. Distr. — Peru (Pichis River, Puerto Bermúdez; Ucayali River, Unini; mouth of Pachitea), Bolivia (San Carlos, Sarampiuni).
- MACERRIMUS (Bezzi), 1909b:327 (*Rhamphomyia*). Type-locality: Bolivia, Mapiri, Sarampiuni, 700 m. Distr. — Bolivia (Mapiri, Sarampiuni).
- MUNDURUCU Smith, 1962:247. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- MURA Smith, 1962:246. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- NIGRIVENTRIS (Macquart), 1846:96 (*Rhamphomyia*). Type-locality: "Brazil". Distr. — Brazil.

- ?ORTHONEURA (Bezzi), 1905:431 (*Rhamphomyia*). Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- PALLIATUS (Coquillett), 1902:140 (*Sciodromia*). Type-locality: Mexico, Tabasco, Frontera. Distr. — Mexico (Tabasco, Frontera). N. comb.
- PERPULCHRUS (Bezzi), 1909b:334 (*Rhamphomyia*). Type-locality: Bolivia, Mapiri, Lorenzopata, 2000-2500 m. Distr. — Bolivia (Mapiri, Lorenzopata).
- PICTIPENNIS (Bezzi), 1909b:330 (*Rhamphomyia*). Type-locality: Bolivia, Mapiri, San Carlos, 800-1200 m. Distr. — British Guiana (Amatuk Falls, Potaro River; Kaieteur), Bolivia (Mapiri, San Carlos). Ref. — Smith, 1961:55, figs. 1-4 (antenna, male genitalia, male wing, female wing).
- ?PULCHRIVENTRIS (Bezzi), 1905:432 (*Rhamphomyia*). Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- ROTUNDIPENNIS (Bezzi), 1905:433 (*Rhamphomyia*). Type-locality: Peru, Vilcanota. Distr. — Peru (Vilcanota).
- SETICAUDA Smith, 1963:160, fig. 13. Type-locality: British Guiana, Mazaruni. Distr. — British Guiana (Mazaruni).
- VARISETA Smith, 1962:246, fig. 56. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- WIEDEMANNI Smith, 1962:244, fig. 53. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).

#### Genus ATRICHOPLEURA Bezzi

- ATRICHOPLEURA Bezzi, 1909b:357. Type-species, *schnusei* Bezzi (orig. des.).
- ARGYRIVENTRIS Becker, 1919:171. Type-locality: Ecuador, Chillacocha, 3590 m. Distr. — Ecuador (Chillacocha).
- CAESIA Collin, 1933:205, figs. 43g-i. Type-locality: Argentina, L. Correntoso. Distr. — Argentina (L. Correntoso, L. Gutierrez, Bariloche).
- CANA Collin, 1933:201. Type-locality: Uruguay, Montevideo. Distr. — Uruguay (Montevideo).
- CAUDATA Collin, 1933:207, figs. 44b-d. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez, Bariloche).
- CINEREA Collin, 1933:199, figs. 43a-f. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Correntoso).
- CITIMA Collin, 1933:209, figs. 44e-g. Type-locality: Chile, Peulla. Distr. — Chile (Peulla, Angol).
- CONGENER Collin, 1933:204. Type-locality: Chile, Marga-Marga. Distr. — Chile (Marga-Marga).
- CRASSA Bezzi, 1909b:359. Type-locality: Chile, Quillota, 1000 m. Distr. — Chile (Quillota).
- ENARRABILIS Collin, 1933:200. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).



- FAUSTA Collin, 1933:206, fig. 44a. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — Argentina (L. Nahuel Huapi, Bariloche).
- GUARINI Smith, 1962:235, figs. 38-41. Type-locality: Brazil, Santa Catarina Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- HIRTIPES Bezzi, 1909b:361. Type-locality: Peru, valley of Lares, 2000-4000 m. Urubamba River, Rosalina. Distr. — Peru (valley of Lares; Urubamba River, Rosalina).
- JAFFUELI Collin, 1933:202, figs. 43c-e, j. Type-locality: Chile, Marga-Marga. Distr. — Chile (Marga-Marga).
- MAMELUCA Smith, 1962:235, fig. 37. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- MAUHES Smith, 1962:237, figs. 42-44. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).
- MUNDURUCU Smith, 1962:238, figs. 45-46. Type-locality: Brazil, São Paulo, Capital, Cantareira. Distr. — Brazil (São Paulo, Capital, Cantareira).
- NITIDA Bezzi, 1909b:358. Type-locality: Peru, Sicuani, 3500 m. Distr. — Peru (Sicuani).
- PROTHORACALIS Collin, 1933:204. Type-locality: Chile, Peulla. Distr. — Chile (Peulla).
- SCAPULIFERA (Bigot), 1889:129 (*Microphorus*). Type-locality: "Chile". Distr. — Chile. Ref. — Collin, 1933:198, figs. 42f-i (details of male genitalia).
- SCHINUSEI Bezzi, 1909b:362. Type-locality: Peru, Valparaiso, Cuzco, 3400 m. Distr. — Peru (Valparaiso, Cuzco). Ref. — Melander, 1927:134, pl. 6, fig. 60 (male, whole insect).
- SPINIPES Collin, 1933:196, figs. 42a-e. Type-locality: Argentina, L. Nahuel Huapi, eastern end; Chile, Casa Pangue. Distr. — Chile (Casa Pangue), Argentina (L. Nahuel Huapi, L. Correntoso, Bariloche).
- ?TEPHIRODES (Philippi), 1865:760 (*Rhamphomyia*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago).

#### Genus ANTHEPISCOPUS Becker

- ANTHEPISCOPUS Becker, 1891:281. Type-species, *ribesii* Becker (Coquillett, 1903:246).

Collin (1961:7) places *Anthepiscopus* in Hybotinae, but for convenience I retain it in Empidinae, conforming with the North American catalogue.

- EXTIMUS Collin, 1933:223, fig. 48a. Type-locality: Chile, Castro. Distr. — Chile (Castro).

#### Genus PASITRICHOTUS Collin

- PASITRICHOTUS Collin, 1933:103. Type-species, *significans* Collin (orig. des).
- SIGNIFICANS Collin, 1933:103. Type-locality: Chile, Chiloe I., Castro, Casa Pangue. Distr. — Chile (Chiloe I., Castro, Casa Pangue).

### Genus DEUTERAGONISTA Philippi

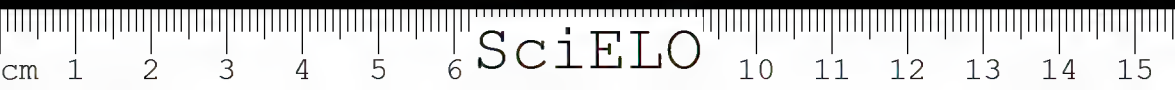
- DEUTERAGONISTA Philippi, 1865:770. Type-species, *bicolor* Philippi (mon.).  
*Phleboctena* Bezzi, 1909b:381. Type-species, *lutea* Bezzi (mon.).  
BICOLOR Philippi, 1865:771. Type-locality: Chile, Corral. Distr. — Chile (Corral).  
DENOTATA Collin, 1933:328 (addendum). Type-locality: Chile, Ancud. Distr. — Chile (Ancud).  
FULVILATA Collin, 1933:100. Type-locality: "Chile". Distr. — Chile.  
LUTEA (Bezzi), 1909b:382, figs. 7-8 (*Phleboctena*). Type-locality: Chile, Rancagua, Cordilleras. Distr. — Chile (Rancagua, Cordilleras).  
STIGMATICA Collin, 1933:98, figs. 18a-e. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).  
TERMINALIS Collin, 1933:102. Type-locality: Chile, Rio Blanco, Transandine Railway. Distr. — Chile (Rio Blanco).  
THORACICA Collin, 1933:102. Type-locality: Chile, Concepción. Distr. — Chile (Concepción).  
VILLOSULA (Bigot), 1889:131 (*Empis*). Type-locality: "Chile". Distr. — Chile. Ref. — Collin, 1933:101 (says that *Phleboctena lutea* Bezzi may be the ♀ of this species).

### Genus AMICTOIDES Bezzi

- AMICTOIDES Bezzi, 1909b:380. Type-species, ?*Hilara breviventris* Philippi, *sensu* Bezzi (mon.).  
BREVIVENTRIS (Philippi), 1865:762 (*Hilara*). Type-locality: Chile, Santiago (Philippi), Concepción (Bezzi). Distr. — Chile (Santiago, Concepción). Ref. — Bezzi, 1909b:380. [Collin (1933:105) points out that if Bezzi's interpretation of Philippi's species is incorrect, then Bezzi's male is type-species of *Amictoides*; he compared the two descriptions in detail].

### Genus HILAREMPIS Bezzi

- HILAREMPIS Bezzi, 1905:443. Type-species, *nudifacies* Bezzi (Melandrer, 1927:128).  
*Heterempis* Brèthes, 1909:92. Type-species, *mendozana* Brèthes (mon.).  
ANTARCTICA (Walker), 1837:341 (*Empis*). Type-locality: Straits of Magellan, Port Famine [penal settlement 53°38' South and 70°58' West, now abandoned]. Distr. — Straits of Magellan (Port Famine). Ref. — Collin, 1933:133.  
ARGENTIFERA Bezzi, 1909b:365, 371. Type-locality: Chile, Quillota. Distr. — Chile (Quillota).  
ARGENTULA Becker, 1919:169. Type-locality: Ecuador, Tulcán, 3002 m. Distr. — Ecuador (Tulcán).





- ARGYROZONA (Philippi), 1865:761 (?*Hilara*). Type-locality: "Chile". Distr. — Chile (Galvarino). Ref. — Collin, 1933:112, figs. 19d-f (male genitalia).
- BARBATULA Bezzi, 1909b:365, 371. Type-locality: Peru, Oroya, 3700-4000 m. Distr. — Peru (Oroya).
- BICINGULATA Bezzi, 1909b:364, 367, ♂. Type-locality: Chile, Corral. Distr. — Chile (Corral). Ref. — Collin, 1933:114.
- ?*argyrozona* Philippi, 1865:754 (*Empis*; ♀). Type-locality: Chile, Corral.
- EISERIATA Collin, 1933:135, figs. 25g, k. Type-locality: Chile, Ensenada and Puerto Varas. Distr. — Chile (Ensenada, Puerto Varas, Peulla).
- BRACHYRRHYNCHA (Thomson), 1869:474 (*Hilara*). Type-locality: "Patagonia". Distr. — Patagonia. Ref. — Collin, 1933:136.
- CARINATA Bezzi, 1909b:363, 369. Type-locality: Bolivia, Cordillera, 4000-5000 m. Distr. — Bolivia (Cordillera).
- CHLIATA Collin, 1933:129, fig. 24a. Type-locality: Chile, Puerto Varas. Distr. — Chile (Chiloe I., Castro, Puerto Varas), Argentina (Bariloche).
- COMMODA Collin, 1933:114, figs. 20a-c. Type-locality: Chile, Magallanes. Distr. — Chile (Magallanes), Tierra del Fuego (Estancia Viamonte).
- COTOXANTHA (Blanchard), 1852:372, pl. 3, fig. 3 (*Empis*). Type-locality: Chile, Coquimbo. Distr. — Chile (Coquimbo). Ref. — Collin, 1933:231, where he states that "this is certainly not an *Empid*. It is probably an *Asilid*".
- DOLOSA Collin, 1933:126. Type-locality: Argentina, Bariloche. Distr. — Chile (Puerto Varas, Chiloe I., Castro), Argentina (Bariloche).
- ?DUMICOLA (Philippi), 1865:757 (*Empis*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago).
- ELEGANS Bezzi, 1909b:364, 368. Type-locality: Peru, Tarma, 3000 m. Distr. — Peru (Tarma).
- FACILIS Collin, 1933:125, figs. 23c, h-i. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — Argentina (L. Nahuel Huapi, Bariloche).
- FAMILIARIS Collin, 1933:124, figs. 23a, e, f. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — ? Chile (Angol), Argentina (L. Nahuel Huapi, Bariloche).
- ?FULVA (Philippi), 1865:756 (*Empis*). Type-locality: Chile, Valdivia, Corral. Distr. — Chile (Valdivia, Corral).
- philippii* Bezzi, 1909b:363 (*Hilarempis*) (nom. nov. for *Empis fulva* Philippi, nec Macquart, nec Walker).
- GENUALIS Collin, 1933:122, fig. 22b. Type-locality: Argentina, L. Gutierrez. Distr. — Chile (Casa Pangue), Argentina (L. Gutierrez, L. Nahuel Huapi, L. Correntoso, Puerto Blest, Bariloche).
- ?GRISEIVENTRIS (Philippi), 1865:761 (*Hilara*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia).
- GUBERNATOR Collin, 1933:139, figs. 26d-e. Type-locality: Chile, Casa Pangue. Distr. — Chile (Casa Pangue, Peulla).
- GYMNASPIS Bezzi, 1909b:365, 370. Type-locality: Peru, Cuzco, 3500 m. Distr. — Peru (Cuzco).

- IDONEA Collin, 1933:133, figs. 25d-f. Type-locality: Argentina, L. Gutierrez. Distr. — Chile (Chiloe I., Castro), Argentina (L. Gutierrez, L. Nahuel Huapi, Puerto Blest, Bariloche, L. Correntoso).
- INOPS Collin, 1933:140, figs. 26a-c. Type-locality: Argentina, Bariloche. Distr. — Chile (Marga-Marga, Casa Pangue), Argentina (Bariloche, L. Correntoso, L. Nahuel Huapi).
- INSULARIS Brèthes, 1924:106. Type-locality: Chile, Chiloe I. Distr. — Chile (Chiloe I.).
- JURI Smith, 1962:227, figs. 27-28. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- LANGUIDA Collin, 1933:115. Type-locality: Chile, Casa Pangue. Distr. — Chile (Casa Pangue), Argentina (Bariloche).
- ?LATICORNIS (Bigot), 1888:20 (*Hilara*). Type-locality: Cape Horn. Distr. — Cape Horn.
- LEVICULA Collin, 1933:127, figs. 23b, d, g. Type-locality: Chile, Ancud. Distr. — Chile (Ancud).
- ?MAGELLANICA (Bigot), 1888:20 (*Hilara*). Type-locality: Cape Horn. Distr. — Cape Horn.
- MALUINENSIS (Enderlein), 1912:48, fig. 7 (*Hilara*). Type-locality: Falkland Is. Distr. — Falkland Is.
- MEDIANA Collin, 1933:137, figs. 25h-j. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I., Ancud, Puntra, Mechuque I., Ensenada, Castro).
- MENDOZANA (Brèthes), 1924:92 (*Heterempis*). Type-locality: Argentina, Tupungato. Distr. — Argentina (Tupungato).
- MOREIRAI Brèthes, 1924:106. Type-locality: Chile, Chiloe I. Distr. — Chile (Chiloe I.).
- NOTABILIS Collin, 1933:117, figs. 21e-h. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez, Bariloche, L. Nahuel Huapi), Tierra del Fuego (Rio Grande).
- NUDIFACIES Bezzi, 1905:446. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- ORDINATA Collin, 1933:120. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez, Bariloche).
- OTIOSA Collin, 1933:119, fig. 22d. Type-locality: Chile, Angol. Distr. — Chile (Angol).
- PALLIDA (Philippi), 1865:761 (?*Hilara*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Chiloe I., Castro, Mechuque I.). Ref. — Collin, 1933:131.
- POLYCHAETA Bezzi, 1905:445. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- PROPINQUA Collin, 1933:127. Type-locality: Argentina, L. Nahuel Huapi. eastern end. Distr. — Argentina, L. Nahuel Huapi, Bariloche). Tierra del Fuego (Estancia Viamonte).
- QUADRIFARIA Becker, 1919:169. Type-locality: Ecuador, Narhuiña, 3904 m. Distr. — Ecuador (Narhuiña).

- RODRIGUEZI Carrera, 1954:222, figs. 1-7, 9. Type-locality: Chile, Península de Magallanes. Distr. — Chile (Península de Magallanes).
- SHUMANA Smith, 1962:227, fig. 29. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- SIGILLATA Collin, 1933:142, figs. 26f-g. Type-locality: Argentina, L. Correntoso. Distr. — Chile (Chiloe I., Casa Pangué, Peulla, Mechuque I.), Argentina (L. Correntoso, L. Nahuel Huapi, Puerto Blest).
- SIMILIPES Collin, 1933:132, figs. 25a-c. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — Chile (Angol), Argentina (L. Nahuel Huapi, Bariloche, L. Gutierrez).
- sp.* (near *argyrozona* Philippi) Smith, 1962:229. Locality: Brazil, Santa Catarina, Nova Teutônia.
- SPINOSA Bezzi, 1909b:363, 365. Type-locality: Chile, Fermas, Tolhuaca. Distr. — Chile (Fermas, Tolhuaca, Magallanes), Argentina (L. Nahuel Huapi, Puerto Blest), Tierra del Fuego (Rio Grande). Ref. — Collin, 1933:121, fig. 22a (male genitalia).
- STENOSTOMA Collin, 1933:129, fig. 24b. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I., Ancud).
- ?TEPHRODES (Philippi), 1865:755 (*Empis*). Type-locality: Chile, S. Cristoval. Distr. — Chile (S. Cristoval).
- TIBIALIS Collin, 1933:115, figs. 21a-d. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Gutierrez, L. Nahuel Huapi, L. Correntoso).
- TUCUNA Smith, 1962:228, fig. 30. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- VANELLUS (Schiner), 1868:206 (*Hilara*). Type-locality: "Colombia". Distr. — Colombia.
- VARIANS (Bigot), 1889:130 (*Empis*). Type-locality: "Chile". Distr. — Chile (Magallanes, Galvarino), Tierra del Fuego (Estancia Viamonte). Ref. — Collin, 1933:110, fig. 19.
- fulva* Walker, 1837:341 (*Empis*) (nec *fulva* Macquart, 1837). Type-locality: Straits of Magellan, Port Famine [see *E. antarctica* for locality detail].
- ? *walkeri* Bezzi, 1909b:343 (*Empis*). Type-locality: Straits of Magellan, Port Famine. (Nom. nov. for *fulva* Walker).
- XANTHOCERA Bezzi, 1905:44. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).

#### Genus HILARA Meigen

- HILARA Meigen, 1822:1. Type-species, *Empis maura* Fabricius (Curtis, 1826: pl. 130).
- APICALIS Smith, 1962:233. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- ARMATA Collin, 1933:180, fig. 37a. Type-locality: Argentina, Bariloche, L. Correntoso. Distr. — Argentina (Bariloche, L. Correntoso, Puerto Blest).

- CATARINAE Smith, 1962:232, fig. 36. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- DISCREPITANS Collin, 1933:191. Type-locality: Chile, Angol. Distr. — Chile (Angol).
- FRATERNAL Collin, 1933:179, fig. 37e. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez).
- IMMERENS Collin, 1933:185. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest, L. Gutierrez. Distr. — Argentina (L. Nahuel Huapi, Puerto Blest, L. Gutierrez, L. Correntoso, Bariloche).
- IRRITANS Bezzi, 1909b:378. Type-locality: Chile, Quillota, 1000 m. Distr. — Chile (Quillota), Argentina (L. Correntoso, Bariloche). Ref. — Collin, 1933:184.
- LUTEOLIMBATA Collin, 1933:182, fig. 38a. Type-locality: Chile, Peulla. Distr. — Chile (Peulla).
- MIRHANA Smith, 1962:231, fig. 35. Type-locality: Brazil, Minas Gerais, Sapucaí-Mirim, Cidade Azul. Distr. — Brazil (Minas Gerais, Sapucaí-Mirim, Cidade Azul).
- OCCIPITALIS Collin, 1933:186, fig. 39b. Type-locality: Argentina, L. Correntoso. Distr. — Argentina (L. Correntoso).
- PERPLEXA Bezzi, 1909b:379. Type-locality: Peru, valley of Lares, 2000-4000 m. Distr. — Peru (valley of Lares).
- PERTURBANS Bezzi, 1909b:380. Type-locality: Chile, Tarapaca, Palca, 2000-4000 m; Peru, Cuzco, 3500 m. Distr. — Peru (Cuzco), Chile (Palca).
- REDUCTA Collin, 1933:189, figs. 40a-d. Type-locality: Chile, Chiloe I., Mechuque I. Distr. — Chile (Chiloe I.: Castro, Ancud; Mechuque I.).
- SETIPLEURA Smith, 1962:233. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- STETHICA Collin, 1933:187. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina (Mendoza, Potrerillos).
- SUBARMATA Collin, 1933:181. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez).
- SUBPENNATA Collin, 1933:178, figs. 37b-d. Type-locality: Chile, Peulla. Distr. — Chile (Peulla, Angol), Argentina (Bompland).
- TONSILIS Collin, 1933:188, fig. 39c. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest, L. Correntoso. Distr. — Chile (Casa Pangue), Argentina (L. Nahuel Huapi, Puerto Blest, L. Correntoso).
- TUPINAMBA Smith, 1962:231. Type-locality: Brazil, Minas Gerais, Sapucaí-Mirim, Cidade Azul. Distr. — Brazil (Minas Gerais, Sapucaí-Mirim, Cidade Azul).
- VERTICALIS Collin, 1933:182, fig. 38b. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina (Mendoza, Potrerillos).



# Genus HILARIGONA Collin

- HILARIGONA Collin, 1933:144. Type-species, *Pachymeria argentata* Philippi (orig. des.).
- ABERRANS (Bezzi), 1909b:376 (*Hilara*). Type-locality: Bolivia, Mapiri, Cordillera, 3000 m. Distr. — Bolivia (Mapiri, Cordillera).
- ABNORMIS (Bezzi), 1909b:377 (*Hilara*). Type-locality: Peru, Chanchamayo, 800 m. Distr. — Peru (Chanchamayo).
- ANNULATA (Philippi), 1865:758 (*Pachymeria*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia).
- ANOMALICAUDA Collin, 1933:150, fig. 29a. Type-locality: Chile, Ancud and Puerto Varas. Distr. — Chile (Ancud, Puerto Varas, Mechuque I.).
- ARGENTATA (Philippi), 1865:758 (*Pachymeria*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Peulla, Ancud, Casa Pangué, Chiloe I., Putchuc), Argentina (Bariloche, Puerto Blest). Ref. — Collin, 1933:146, fig. 27a (male hind leg), fig. 28a-d (male genitalia).
- BRACHYGASTRA (Philippi), 1865:759 (*Pachymeria*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Mechuque I., Chiloe I.: Castro and Puntra, Peulla, Puerto Varas). Ref. — Collin, 1933:149, fig. 29b (male genitalia).
- CAISHANA Smith, 1962:229, fig. 31. Type-locality: Brazil, Minas Gerais, Sapucaí-Mirim, Cidade Azul. Distr. — Brazil (Minas Gerais, Sapucaí-Mirim, Cidade Azul).
- CHILOENSIS (Brèthes), 1924:105 (*Haplomera*). Type-locality: Chile, Chiloe I. Distr. — Chile (Chiloe I., Mechuque I., Ancud), Argentina (Bariloche). Ref. — Collin, 1933:157, fig. 31b (male hypopygium).
- CONNEXIVA Collin, 1933:158, fig. 31c. Type-locality: Chile, Puerto Montt, Chiloe I.: Puntra. Distr. — Chile (Puerto Montt, Chiloe I.: Puntra).
- CRASSISTYLA Collin, 1933:153, fig. 30a-b. Type-locality: Argentina, San Isidro, near Buenos Aires. Distr. — Argentina (San Isidro, near Buenos Aires).
- CUPARI Smith, 1962:230, figs. 32-33. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- FULVIPES (Philippi), 1865:760 (*Pachymeria*). Type-locality: "Chile". Distr. — Chile.
- MAJERONA Smith, 1962:230, fig. 34. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- MODESTA (Philippi), 1865:759 (*Pachymeria*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia).
- OBSCURATA (Philippi), 1865:759 (*Pachymeria*). Type-locality: Chile, Corral. Distr. — Chile (Corral).
- OBSCURIPENNIS (Philippi), 1865:759 (*Pachymeria*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Chiloe I.: Ancud, Puerto Varas, Puerto Montt). Ref. — Collin, 1933:156, fig. 31a (male genitalia).

- PENATA Collin, 1933:148, fig. 29c. Type-locality: "Chile". Distr. — Chile.
- POLITA Collin, 1933:148, figs. 28e-g. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Nahuel Huapi).
- PRODUCTA Collin, 1933:148, fig. 27b. Type-locality: Argentina, Buenos Aires. Distr. — Argentina (Buenos Aires).
- PUDICA Collin, 1933:154, figs. 30c,d,f. Type-locality: Chile, Peulla. Distr. — Chilo (Peulla, Puerto Montt, Puerto Varas, Casa Pangué, Mechique I., Chiloe I.: Castro and Ancud).
- RUBRIPES (Philippi), 1865:760 (*Pachymeria*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia).
- SETULIS Collin, 1933:152, fig. 29d. Type-locality: Chile, Chiloe I.: Puntra and Ancud. Distr. — Chile (Chiloe I.: Puntra, Ancud, Castro, Angol).
- SIMILIS Collin, 1933:155, fig. 30e. Type-locality: Argentina, L. Correntoso. Distr. — Argentina (L. Correntoso).

### Subfamily HEMERODROMIINAE

#### Genus CHELIPODA Macquart

- CHELIPODA Macquart, 1823:148. Type-species, *Tachydromia mantispa* Panzer (orig. des.; misident.) = *vocatoria* (Fallén).
- Chiromantis* Rondani, 1856:205 (also as *Chyromantis*, p. 148) (preocc. Peters, 1854). Type-species, *Tachydromia vocatoria* Fallén (orig. des.).
- Litanomyia* Melander, 1902:231. Type-species, *Sciudromia mexicana* Wheeler & Melander (Coquillett, 1903:252).
- Phylldromia*, authors, not Zetterstedt.
- FIMBRIATA Collin, 1933:277. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — Argentina (L. Nahuel Huapi, Puerto Blest, Bariloche).
- MEXICANA MEXICANA (Wheeler & Melander), 1901:376 (*Sciudromia*). Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas. Distr. — Mexico (Guerrero, Sierra de las Aguas Escondidas), Costa Rica (La Suiza de Turrialba). Ref. — Melander, 1947:247, fig. 47 (male genitalia).
- ssp. INTERMEDIA Smith, 1962:260. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- OBTUSIPENNIS Collin, 1933:278. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest. Distr. — Argentina (L. Nahuel Huapi, Puerto Blest).
- REMISSA REMISSA Collin, 1933:275, figs. 62a-c. Type-locality: Argentina, Bariloche. Distr. — Chile (Casa Pangué, Ensenada, Concepción, Puerto Varas), Argentina (Bariloche, L. Correntoso, L. Gutierrez).
- ssp. HAMATILIS Collin, 1933:277. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas).
- RHABDOPTERA Melander, 1927:266. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

- SUBFLAVA Collin, 1933:278. Type-locality: Chile, Chiloe I., Mechuque I. Distr. — Chile (Chiloe I., Mechuque I.).
- VITTATA (Lynch Arribáizaga), 1878:294 (*Hemerodromia*). Type-locality: Argentina, Buenos Aires, Baradero. Distr. — Argentina (Buenos Aires, Baradero).

#### Genus CHELIPODOZUS Collin

- CHELIPODOZUS Collin, 1933:279. Type-species, *cinereus* Collin (orig. des.).
- CINEREUS Collin, 1933:279. Type-locality: Chile, Casa Pangue. Distr. — Chilo (Casa Pangue).
- OCHRACEUS Collin, 1933:280. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas).

#### Genus CLADODROMIA Bezzi

*Hemerodromia*, subg. CLADODROMIA Bezzi, 1905:453. Type-species, *inca* Bezzi (Melander, 1927: 259). [All Philipii species marked thus \* in this genus are impossible to place on description alone; they may belong to *Neoplasta* (vide Collin, 1933:294)].

- \*BICOLOR (Philippi), 1865:767 (*Hemerodromia*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago).
- BOLIVIANA Bezzi, 1909b:391, 396. Type-locality: Bolivia, Guaqui, Lago Titicaca, 3850-4500 m. Distr. — Bolivia (Guaqui, Lago Titicaca).
- CANA Bezzi, 1905:455. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- DECURTATA Collin, 1933:310, fig. 70b. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).
- \*FLAVIPES (Philippi), 1865:766 (*Hemerodromia*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago).
- FUSCIMANA Bezzi, 1909b:394. Type-locality: Peru, valley of Lares, 3000-4000 m. Distr. — Peru (valley of Lares).
- INCA Bezzi, 1905:454, fig. 3. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).
- INCONSTANS Collin, 1933:309, fig. 70a. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I.: Castro, Ancud; Los Andes), Argentina (L. Nahuel Huapi, Bariloche, Mendoza: Potrerillos).
- MEDIANA Collin, 1933:312. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).
- MINIMA Collin, 1933:311, fig. 70c. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I.: Castro).
- \*NIGRIMANA (Philippi), 1865:766 (*Hemerodromia*). Type-locality: Chile, Illapel. Distr. — Chile (Illapel).
- NTIDA Collin, 1933:314, fig. 71c. Type-locality: Chile, Chiloe I., Puntra. Distr. — Chile (Chiloe I.: Puntra).

- PLURIVITTATA Bezzi, 1909b:391, 395, fig. 16. Type-locality: Peru, Arequipa, 2300-2500 m, Cuzco, 3500 m. Distr. — Peru (Arequipa, Cuzco).
- POLLINOSA Collin, 1933:313. Type-locality: Argentina, Bariloche; Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I.: Ancud), Argentina (Bariloche).
- \*PRATINCOLA (Philippi), 1865:766 (*Hemerodromia*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago).
- \*SEMILUGENS (Philippi), 1865:766 (*Hemerodromia*). Type-locality: Chile, San Fernando. Distr. — Chile (San Fernando).
- STIGMATICA Collin, 1933:313, fig. 71a. Type-locality: Chile, Chiloe I., Castro. Distr. — Chile (Chiloe I.: Castro).
- TANYPTERA Collin, 1933:315. Type-locality: Argentina, L. Nahuel Huapi, Puerto Blest. Distr. — Argentina (L. Nahuel Huapi, Puerto Blest).

#### Genus NEOPLASTA Coquillett

- NEOPLASTA Coquillett, 1895:392. Type-species, *Hemerodromia scapularis* Loew (orig. des.).
- ACUTA Collin, 1933:305, fig. 69a. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, L. Gutierrez).
- ANALIS (Thomson), 1869:474 (*Hemerodromia*). Type-locality: "Patagonia". Distr. — Chile (Angol), Patagonia.
- BASALIS Collin, 1933:307, fig. 69c. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué).
- BIVITTATA (Philippi), 1865:766 (*Hemerodromia*). Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Puerto Montt). Ref. — Collin, 1933:298, fig. 67b (male genitalia).
- BREVICORNIS Collin, 1933:301, fig. 61d. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).
- CILICAUDA Collin, 1933:299, fig. 67c. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — Chile (Chiloe I.: Ancud), Argentina (L. Nahuel Huapi, Bariloche).
- COXALIS Collin, 1933:306, fig. 69b. Type-locality: Argentina, L. Nahuel Huapi, eastern end. Distr. — Argentina (L. Nahuel Huapi).
- DISCRETA Collin, 1933:297, fig. 67a. Type-locality: Argentina, L. Correntoso. Distr. — ?Chile (Casa Pangué, Chiloe I., Mechuque I.), Argentina (L. Correntoso, L. Gutierrez, Bariloche, L. Nahuel Huapi, Puerto Blest).
- EXCAVATA Collin, 1933:294, fig. 66a. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).
- FEMORALIS Bezzi, 1909b:391, 393. Type-locality: Peru, Tarma, 3000 m. Distr. — Peru (Tarma).
- FORTISETA Smith, 1962:263, fig. 73. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).



- FUSCIFURCA Smith, 1962:263, figs. 71-72. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina).
- MEXICANA (Melander), 1902:235, figs. 56, 60 (*Hemerodromia*). Type-locality: Mexico, Orizaba. Distr. — Mexico (Orizaba).
- PARVICAUDA Collin, 1933:305, fig. 59d. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez, Bariloche).
- PLEURICA Collin, 1933:304. Type-locality: Chile, Los Andes. Distr. — Chile (Los Andes).
- PROPYGIALIS Collin, 1933:301, figs. 68a-b. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez).
- PUBESCENS Collin, 1933:295, fig. 66b. Type-locality: Argentina, N. Nahuel Huapi, eastern end, Bariloche. Distr. — Argentina (L. Nahuel Huapi, Bariloche).
- PUERILIS Melander, 1947:262, fig. 39. Type-locality: Costa Rica, Pedregosa. Distr. — Costa Rica (Pedregosa).
- PYGIALIS Collin, 1933:302, fig. 68c. Type-locality: Chile, Casa Pangue. Distr. — Chile (Casa Pangue).
- SPADIX Melander, 1947:264, fig. 42. Type-locality: Costa Rica, Pedregosa. Distr. — Costa Rica (Pedregosa).
- TRANSILIS Collin, 1933:296, figs. 66c-d. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas, Peulla, Ensenada).

#### Genus METACHELA Coquillett

- METACHELA Coquillett, 1903:263. Type-species, *collusor* (Melander) (orig. des.).
- BARUERI Smith, 1962:262. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo, Barueri).
- BREVIRADIUS Smith, 1962:261, fig. 70. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- CIRCUMDATA Collin, 1933:287, fig. 64b. Type-locality: Argentina, Bariloche. L. Gutierrez. Distr. — Argentina (Bariloche, L. Gutierrez).
- FLAVELLA Collin, 1933:29, fig. 65c. Type-locality: Chile, Casa Pangue. Distr. — Chile (Casa Pangue).
- HEXACHAETA Collin, 1933:290, fig. 65d. Type-locality: Chile, Casa Pangue. Distr. — Chile (Casa Pangue, Puerto Varas, Puerto Montt, Peulla).
- INORNATA Collin, 1933:289, fig. 65b. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).
- INSTABILIS Collin, 1933:288, fig. 65a. Type-locality: Chile, Puerto Varas. Distr. — Chile (Puerto Varas).
- PATULA Collin, 1933:286, fig. 64c. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche).
- sp.* (near *hexachaeta*) Collin, 1933:291. Locality: Chile, Casa Pangue.

## Genus CHELIFERA Macquart

- CHELIFERA Macquart, 1823:150. Type-species, *raptor* Macquart (mon.) = *monostigma* (Meigen).
- Mantipeza* Rondani, 1856:148. Type-species, *Hemerodromia monostigma* Meigen (orig. des.).
- FUMIPENNIS Collin, 1933:284, fig. 63d. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I.: Ancud and Castro).
- ?PALLIDA (Philippi), 1865:766 (*Hemerodromia*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago).

## Genus HEMERODROMIA Meigen

- HEMERODROMIA Meigen, 1822:61. Type-species, *Tachydromia oratoria* Fallén (Rondani, 1856:148). [Acceptance of Westwood's type-designation (1840:132) of *mantispa* Panzer, which equals *Phyllodromia mela-nocephala* (Fabricius), would require that *Hemerodromia* replace *Phyllodromia* Zetterstedt, 1837. Action by the I. C. Z. N. is needed to preserve the present widespread usage of these two names (see Melander, 1927:252 and Collin, 1961:715)].
- BRACHIALIS Melander, 1927:255. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba). Ref. — Melander, 1947:245, fig. 1 (male genitalia).
- DEFESSA Williston, 1896:430, fig. 166. Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent).
- DIVINATOR Melander, 1947:246, fig. 4. Type-locality: Costa Rica, Pedregosa. Distr. — Costa Rica (Pedregosa).
- EDENTULA Collin, 1933:282, fig. 63b. Type-locality: Argentina, Misiones, Bompland. Distr. — Argentina (Misiones, Bompland).
- EXTISPEX Melander, 1947:249, fig. 9. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- FEMORATA Melander, 1927:256. Type-locality: Panama, Canal Zone, Alhajuela. Distr. — Panama (Canal Zone, Alhajuela).
- MESOMELAENA Bezzi, 1909b:390, 392, fig. 15 (subg. *Microdromia*). Type-locality: Peru, Tarma, 3000 m. Distr. — Peru (Tarma), Brazil (Santa Catarina), Argentina (Misiones). Ref. — Collin, 1933:281, fig. 63a (male genitalia).
- NUGATORIA Collin, 1933:283, fig. 63c. Type-locality: Paraguay, Encarnación. Distr. — Paraguay (Encarnación), Argentina (Misiones, Posadas).
- REFLEXA Melander, 1947:251. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- sp. (near *oratorio* [sic] Fallén, lapsus for *oratoria* Fallén) Williston, 1896:440. Locality: West Indies, St. Vincent.

### Genus COLABRIS Melander

- COLABRIS Melander, 1927:258. Type-species, *rufescens* Melander (orig. des.).
- COXALIS Melander, 1927:258. Type-locality: Panama, Canal Zone, Alhajuela. Distr. — Panama (Canal Zone, Alhajuela). Ref. — Melander, 1947:253, fig. 20 (male genitalia).
- RUFESCENS Melander, 1927:258. Type-locality: Panama, Canal Zone, Alhajuela. Distr. — Panama (Canal Zone, Alhajuela). Ref. — Melander, 1947:253, fig. 19 (male genitalia).

### Subfamily CLINOCERINAE

#### Genus DIPSOMYIA Bezzi

- DIPSOMYIA Bezzi, 1909b:389. Type-species, *spinifera* Bezzi (mon.).
- SPINIFERA Bezzi, 1909b:389, fig. 14. Type-locality: Chile, Quillota, 1000 m. Distr. — Chile (Quillota).

#### Genus CLINOCERA Meigen

- CLINOCERA Meigen, 1804:292. Type-species, *nigra* Meigen (mon.).

#### Subgenus CLINOCERA Meigen

- EMPODIATA Collin, 1933:322. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina (Mendoza, Potrerillos).

#### Subgenus HYDRODROMIA Macquart

- HYDRODROMIA Macquart, 1835:658 (as genus). Type-species, *Heleodromia stagnalis* Haliday (Coquillett, 1903:251).
- CUBATAO Smith, 1962:264, fig. 74. Type-locality: Brazil, São Paulo, Cubatão. Distr. — Brazil (São Paulo, Cubatão).
- CUCAMA Smith, 1962:265, fig. 75. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina, Nova Teutônia).
- DITAENIATA (Bezzi), 1909b:387 (*Clinocera*, subg. *Heleodromia*). Type-locality: Bolivia, La Paz, 3700 m. Distr. — Bolivia (La Paz).

#### Genus ASYMPHYOPTERA Collin

- ASYMPHYOPTERA Collin, 1933:323. Type-species, *discrepans* Collin (orig. des.).
- DISCREPANS Collin, 1933:324, figs. 73a-b. Type-locality: Peru, Verrugas Cañon. Distr. — Peru (Verrugas Cañon).

Genus PROAGOMYIA Collin

PROAGOMYIA Collin, 1933:325. Type-species, *torrentium* Collin (orig. des.).

TORRENTIUM Collin, 1933:325, figs. 74a-c. Type-locality: Argentina, L. Gutierrez. Distr. — Argentina (L. Gutierrez).

Subfamily CERATOMERINAE

Genus CERATOMERUS Philippi

CERATOMERUS Philippi, 1865:765. Type-species, *paradoxus* Philippi (mon.).

CONNEXUS Collin, 1933:320. Type-locality: Chile, Casa Pangué, Puerto Varas. Distr. — Chile (Casa Pangué, Puerto Varas).

MEDIOCRIS Collin, 1933:318, figs. 72a-d. Type-locality: Chile, Casa Pangué. Distr. — Chile (Casa Pangué, Peulla, Puerto Varas, Puerto Montt, Chiloe I.: Ancud and Castro).

PARADOXUS Philippi, 1865:766, pl. 28, fig. 46. Type-locality: Chile, Valdivia. Distr. — Chile (Valdivia, Chiloe I.). Ref. — Collin, 1933:317.

LITERATURE CITED

BECKER, TH.

1891. Neues aus Süd-Tyrol und Steiermark. Ein dipterologischer Beitrag. *Wien. Ent. Zeit.* 10:281-288, 1 pl.

1902. Aegyptische Dipteren. *Mitteil. zool. Mus. Berlin* 2:1-66, 1 pl.

1919. Diptères brachycères, in *Mission de l'Arc méridien en Amérique du Sud* 10:163-215.

BELLARDI, L.

1861. *Saggio di Ditterologia Messicana*. 2. Parte II. Pt. 2, 99 pp., 2 pls. Torino.

1864. *Idem*, 2. *Mem. R. Accad. Sci. Torino* 21:103-199, 2 pls.

BEZZI, M.

1904a. Empididae Indo-australiani raccolti dal Signor L. Biró. *Ann. Mus. Nat. Hung.* 2:320-361.

1904b. Verzeichniss des bis jetzt bekannten Arten der Dipterengattung *Drapetis* Meigen. *Wien. Ent. Zeit.* 23:143-146.

1905. Empididae neotropicae Musei Nationalis Hungarici. *Ann. Mus. Nat. Hung.* 3:424-460.

1909a. Eine neu Empidide aus Paraguay. *Wien. Ent. Zeit.* 28:319-322.

1909b. Beiträge zur Kenntniss der südamerikanischen Dipteren-Fauna. *Fam. Empididae. Nova Acta Leop. Carol.* 91:299-406.

1909c. Einige neue palaearktische *Empis*-Arten. *Deutsche ent. Zeitschr.* (1909):85-103.



BIGOT, J. M. F.

1857. Diptera, in R. de la Sagra: *Historia fisica, politica y natural de la Isla de Cuba*, vol. 7, 1 pl.
1859. Dipterorum aliquot nova genera. *Rev. Mag. Zool.* (2) 11: 305-315, pl. 11.
1880. 2. *Enoplemis*; 3. *Megacyttarus*. *Bull. Soc. Ent. France* (5) 10:xlvii.
1888. Diptères, in *Mission scient. du Cap Horn*, *Zool.* 6:1-45.
1889. Diptères nouveaux ou peu connus. 34me. partie. XLII. Empidi. *Ann. Soc. Ent. France* (6) 9:111-134.

BLANCHARD, E.

1852. Diptera, in C. Gay: *Historia fisica y politica de Chile*, *Zool.* 7:327-468.

BRÈTHES, J.

1907. Catalogo de los Dipteros de las Republicas del Plata. *An. Mus. Hist. Nat. Buenos-Aires* 16:277-305.
1909. Dipteros y himenopteros de Mendoza. *An. Mus. Hist. Nat. Buenos-Aires* 19:85-105.
1916. Un nouvel Empididae du Chili. *Rev. Chil. Hist. Nat.*, Santiago 20:79-80.
1924. Sur quelques diptères Chiliens. *Rev. Chil. Hist. Nat.*, Santiago 28:104-111.

CARRERA, M.

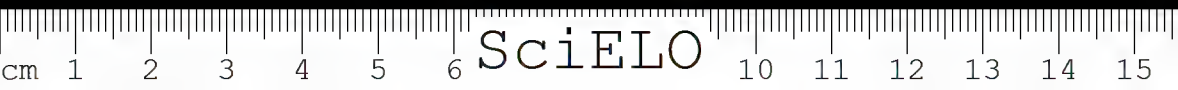
1954. Sobre alguns Empididae (Diptera) da península de Magalhães, Chile. *Rev. Brasil. Ent.* 1:221-226.

COLLIN, J. E.

- 1926-27. Notes on the Empididae (Diptera) with additions and corrections to the British list. *Ent. mon. Mag.* 62:146-159, 185-190, 213-219, 231-237; 63:20-29, 61-67, 93-98.
1928. *New Zealand Empididae*. British Museum (Natural History), London.
1933. Empididae, in *Diptera of Patagonia and South Chile* 4:334 pp., 74 figs. British Museum (Natural History), London.
1961. Empididae, in G. H. Verrall, ed.: *British Flies* 6:782 pp., 317 figs. Cambridge.

COQUILLETT, D. W.

- [1895]. Revision of the North American Empididae. A family of two-winged insects. *Proc. U. S. Nat. Mus.* 18 (1896):387-440.
1900. Report on a collection of dipterous insects from Puerto Rico. *Proc. U. S. Nat. Mus.* 22:249-270.
1902. New Orthorrhaphous Diptera from Mexico and Texas. *J. New York Ent. Soc.* 10:136-141.



1903. The genera of the dipterous family Empididae, with notes and new species. *Proc. ent. soc. Wash.* 5:245-272.
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.

CRANE, A. E.

1961. A study of the habits of *Rhamphomyia scutellaris* Coquillett (Diptera: Empididae). *Wasmann J. Biol.* 19:247-263.

CURRAN, C. H.

- 1928a. Diptera or two-winged flies. *Scient. Survey Porto Rico and Virgin Is.* 11(1):1-118.
- 1928b. In C. C. Gowdey: *Catalogus insectorum Jamaicensis*. Appendix. *Ent. Bull. Dept. Agric. Jamaica* 4(3):1-30.
1931. New species of Empididae from Panama. *Amer. Mus. Nov.* 467:1-12.
1932. The Norwegian zoological expedition to the Galapagos Islands, 1925, conducted by Alf Wooleback. IV. Diptera (excl. of Tipulidae and Culicidae). *Nyt Mag. Naturvidensk.*, Oslo 71:347-366.
1934. The Diptera of Kartabo, Bartica District, British Guiana. *Bull. Amer. Mus. Nat. Hist.* 66:287-532.

CURTIS, J.

1826. *British Entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland*. Vol. 3. pls. 99-146. London.
1833. Idem, Vol. 10: pls. 434-481.
1834. Idem, Vol. 11: pls. 482-529.
1837. Idem, Vol. 13: pls. 626-673.

ELTRINGHAM, H.

1928. On the production of silk by species of the genus *Hilara* Meigen (Diptera). *Proc. Roy. Soc. London (B)* 102:327-334.

ENDERLEIN, G.

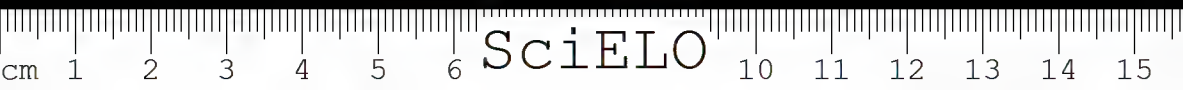
1912. Die Insekten des Arnarkto-Archiplatea-Gebietes. *Kongl. Vet. Akad. Handl.*, Stockholm 48(3): 170 pp.

ENGEL, E. O.

1928. Die Ausbeute der deutschen Chaco-Expedition. V. Empididae (Diptera). *Konowia* 7:245-251.

FABRICIUS, J. C.

1805. *Systema Antliatorum*, Brunsvigae.



FREY, R.

1922. Vorarbeiten zu einer Monographie der Gattung *Rhamphomyia* Meigen. *Notulae Ent.* 2:1-10, 33-45, 65-77.

GRUHL, K.

1924. Paarungs Gewohnheit der Dipteren. *Z. wiss. Zool.* 122:205-280.

GRUNIN, K. YA.

1953. Viviparity in coprobionts in the Order Diptera. *Trudy Zool. Inst. Akad. Nauk SSSR* 13:387-389. [In Russian].

HAMM, A. H.

1909. Further observations on the Empinae. *Ent. mon. Mag.* 45: 157-162.  
1928. On the epigamic behaviour of *Hilara maura* Fab. and two allied species. *Proc. Roy. Soc. London (B)* 102:334-337.

HARDY, G. H.

1962. The anal field in the wing venation of Empididae and related families. *J. Ent. Soc. S. Queensland* 1:25-29.

HOBBY, B. M. & K. G. V. SMITH

- 1961a. The bionomics of *Empis tessellata* F. (Dipt. Empididae). *Ent. mon. Mag.* 97:2-10.  
1961b. The immature stages of *Rhamphomyia (Megacyttarus) anomalipennis* Mg. (Dipt., Empididae). *Ent. mon. Mag.* 97:138-139.  
[1962a]. The bionomics of *Empis opaca* Mg. (Dipt., Empididae). *Ent. Mon. Mag.* 97 (1961):204-208.  
1962b. The larva of the viviparous fly *Ocydromia glabricula* (Fln.) (Dipt., Empididae). *Ent. mon. Mag.* 98:49-50.

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

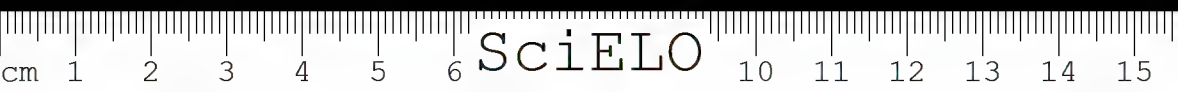
1963. Opinion 678. The suppression under the plenary powers of the pamphlet published by Meigen 1800. *Bull. Zool. Nomencl.* 20: 339-342.

JOHNSON, C. W.

1894. List of the Diptera of Jamaica with descriptions of new species. *Proc. Acad. Nat. Sci. Philadelphia* (1894):271-281.  
1908. The Diptera of the Bahamas, with notes and descriptions of one new species. *Psyche* 15:69-80.  
1919. A revised list of the Diptera of Jamaica. *Bull. Amer. Mus. Nat. Hist.* 41:421-449.

KESSEL, E. L.

1955. The mating activities of balloon flies. *Syst. Zool.* 4:97-104.  
1960. The response of *Microsania* and *Hormoepa* to smoke. *Pan-Pacific Ent.* 36:67-68.



KRIVOSHEINA, N. P.

1960. Peculiarities of the earth-living larvae of Rhagionidae, Dolichopodidae and Empididae (Diptera). *Rev. Ent. URSS* 39:144-155. [In Russian].

LATREILLE, P. A.

1796. *Précis des caractères génériques des Insectes, disposés dans un ordre naturel*, Paris.  
1802-1805. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes*, vol. 14. Paris.  
1810. *Considérations générales sur l'ordre naturel des animaux composant les classes des Crustacés, des Arachnides et les Insectes*, 444 pp., Paris.

LAURENCE, B. R.

1953. On the feeding habits of *Clinocera* (Wiedemannia) *bistigma* Curtis (Diptera: Empididae). *Proc. Roy. Ent. Soc. London* (A) 28:139-144.

LINNAEUS, C.

1758. *Systema Naturae* (Ed. 10). Holmiae.

LOEW, H.

1856. Neue Beiträge zur Kenntniss der Dipteren. 4. *Programm K. Realschule zu Meseritz* (1856): 57 pp.  
1861a. Diptera aliquot in insula Cuba collecta. *Wien. ent. Monatsschr.* 5:33-43.  
1861b. Diptera Americae septentrionalis indigena. Centuria prima. *Berl. Ent. Ztschr.* 5:307-359.  
1863. Idem, Centuria tertia, Centuria quarta. *Ibidem* 7:1-55, 275-326.  
1864. Idem, Centuria quinta. *Ibidem* 8:49-104.  
1869. Idem, Centuria octava, Centuria nona. *Ibidem* 13:1-52, 129-186.  
1872. Idem, Centuria decima. *Ibidem* 16:49-115.

LYNCH ARRIÁLAGA, F.

1878. Apuntes sobre los Empides del Baradero. *El Naturalista Argentino* 1:292-295.

MACQUART, J.

- [1823]. Monographie des Insectes Diptères de la famille des Empides observés dans le Nord-Ouest de la France. *Mém. Soc. Sci. Lille* (1822):137-165.  
1827. *Insectes Diptères du Nord de la France*. Lille.  
1834-1835. *Histoire Naturelle des Insectes Diptères (Suites à Buffon)* 1 (1834): 578 pp., 2(1835): 703 pp.  
1838-1855. *Diptères exotiques, nouveaux ou peu connus*, 2 vols. & Append. 1-5, 25 pls. Paris.

MEIGEN, J. W.

1800. *Nouvelle classification des mouches à deux ailes*, 40 pp., Paris.



1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Illigers Mag. f. Insekt.* 2:259-281.
1804. *Klassifikation und Beschreibung der europäischen zweiflügeligen Insekten.* Braunschweig.
1822. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten.* Vol. 3: x + 416 pp., pls. 22-32. Hamm.
1824. Idem, Vol. 4: xii + 428 pp., pls. 33-41. Hamm.
1830. Idem, Vol. 6: iv + 401 pp., pls. 55-66. Hamm.

MELANDER, A. L.

1902. Monograph of North American Empididae. Part 1. *Trans. Amer. ent. Soc.* 28:195-367.
1906. Some new or little-known genera of Empididae. *Ent. News* 17:370-379.
1910. The genus *Tachydromia*. *Psyche* 17:41-62.
1918. The Dipterous genus *Drapetis* Meigen. *Ann. Ent. Soc. Amer.* 11:183-221.
1927. Empididae, in P. Wytsman: *Genera Insectorum* 185. Brussels.
1946. Synopsis of *Coptophlebia*, with descriptions of new American and Oriental species (Diptera, Empididae). *Pan-Pacific Ent.* 22:105-117.
1947. Synopsis of the Hemerodromiinae (Diptera, Empididae). *J. N. Y. ent. Soc.* 55:237-273.

OSTEN-SACKEN, C. R.

1887. In *Biologia Centrali-Americana, Diptera* 1:129-216.

PHILIPPI, R. A.

1865. Aufzählung der chilenischen Dipteren. *Verh. zool. bot. Ges. Wien* 15:595-782.

RAFINESQUE, C. S.

1815. *Analyse de la Nature, ou Tableau de l'Univers et des corps organisés, &c.* 274 pp. Palerme.

RONDANI, C.

1856. *Dipterologiae Italicae Prodrömus*, Vol. 1. Parmae.

SCHINER, J. R.

1860. Vorläufiger Commentar zum dipterologischen Theile der "Fauna Austriaca", mit einer näheren Begründung der in derselben aufgenommenen neuen Dipteren-Gattungen. *Wien. Ent. Monatsschr.* 4:47-55.
1868. *Reise der österreichische Fregatte Novara um die Erde, Zool. Theil, Diptera*: vi + 388 pp., Wien.

SCOPOLI, J. A.

1763. *Entomologia Carniolica*. Vindobonae.

SMITH, K. G. V.

1961. On the genus *Macrostomus* Wiedemann (Diptera: Empididae) with notes on the included species and new synonymy. *Proc. Roy. Ent. Soc. London* (B) 30:53-56.

1962. Studies on the Brazilian Empididae (Diptera). *Trans. Roy. Ent. Soc. London* 114:195-266.

1963. The Empididae (Diptera) collected on the Oxford University Expeditions to British Guiana in 1929 and 1937. *Proc. Roy. Ent. Soc. London* (B) 32:153-161.

1964. Lectotype designation and redescription of two Wiedemann species of Brazilian Empididae (Diptera), with new synonymy. *Proc. Roy. Ent. Soc. London* (B) 33:50-52.

STEPHENS, J. F.

1829. *A systematic catalogue of British Insects*, 2 vols., London.

THOMSON, C. G.

1869. *Kongliga Svenska Fregatten Eugenie's Resa omkring Jorden. Vetenskapliga Iakktagelser, Zoologi 1: Insecta. Häft 12. Diptera: 443-614* (1868).

VAILLANT, F.

1952. Les larves hygropetriques et les nymphes de quelques Empididae Atalantinae (Diptères). *Trav. Lab. Hydrobiol.* 43-44: 39-46.

WALKER, F.

1837. Descriptions, &c. of the Insects collected by Captain P. P. King, R.N., F.R.S., in the Survey of the straits of Magellan. Diptera. *Trans. Linn. Soc. London* 17:331-359.

1849. *List of the specimens of Dipterous Insects in the collection of the British Museum*, Vol. 2: 231-484. London.

1851. Diptera, in F. Walker, H. T. Stainton & S. J. Wilkinson: *Insecta Britannica*. London.

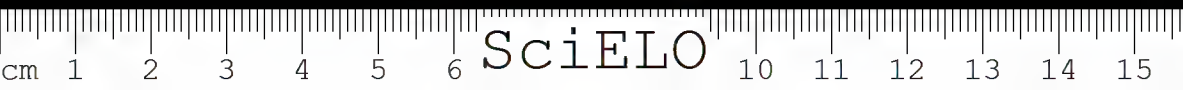
1852. Diptera, in W. W. Saunders: *Insecta Saundersiana*, Vol. 1: pp. 157-252, 253-414, 4 pls. London.

[1861]. Catalogue of the Dipterous Insects collected in Amboyna by Mr. A. R. Wallace. *J. Proc. Linn. Soc. (Zool.)* 4 (Suppl.) (1860): 144-168.

WESTWOOD, J. O.

1835. Insectorum nonnullorum novorum (ex Ordine Dipterorum) descriptiones. *Ann. Soc. Ent. France* 4:681-685.

1840. *An Introduction to the modern classification of Insects*, 158 pp., London.



WHEELER, W. M. & A. L. MELANDER

1901. Empididae, in *Biologia Centrali-Americana, Diptera* 1:366-376.  
London

WHITE, A.

1916. The Diptera Brachycera of Tasmania, Part III. *Pap. Roy. Soc. Tasmania* (1916):148-266.

WIEDEMANN, C. R. W.

1817. Über einige neue Fliegen-Gattungen. *Zool. Mag.* 1:57-61.

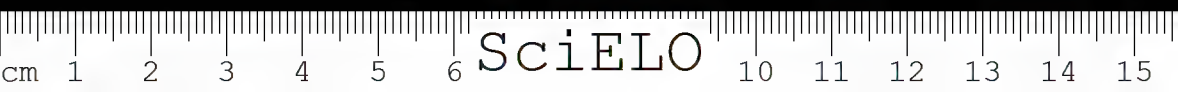
1830. *Aussereuropäische zweiflügelige Insekten* 2: xii + 684 pp.,  
pls. 7-10

WILLISTON, S. W.

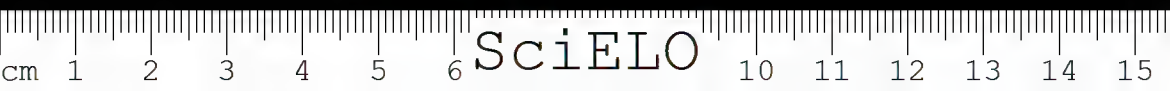
1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London* (1896):253-449.

## INDEX

|  |       |
|--|-------|
| abbreviata Smith, 1962, Drapetis (Elaphropeza) .....                             | 39.3  |
| abdominalis (Bezzi), 1905 (Rhamphomyia), Macrostomus .....                       | 39.29 |
| abdominalis Collin, 1933, Oropezella .....                                       | 39.15 |
| abdominalis Collin, 1933, Trichina .....   | 39.14 |
| aberrans (Bezzi), 1909, (Hilara), Hilarigona .....                               | 39.38 |
| abnormis (Bezzi), 1909, (Hilara), Hilarigona .....                               | 39.38 |
| Acallomyia Melander, 1927. (subg. of Empis) .....                                | 39.21 |
| Acarteroptera Collin, 1933 .....   | 39.9  |
| acuminata Smith, 1962, Drapetis (Elaphropeza) .....                              | 39.3  |
| acuta Collin, 1933, Neoplasta .....  | 39.41 |
| adunca Collin, 1933, Tachyempis .....  | 39.8  |
| agens Curran, 1931, Euhybus .....  | 39.11 |
| albipennis Smith, 1962, Sphicosa .....   | 39.18 |
| algens Curran, 1931, Euhybus .....   | 39.11 |
| Allochrotus Collin, 1933 .....   | 39.18 |
| Allodromia Smith, 1962 .....   | 39.5  |
| ambigua Bezzi, 1905, Empis .....   | 39.21 |
| ambiguus (Philippi), 1865 (Brachystoma, subg. Heterophlebus),<br>Oreogeton ..... | 39.17 |
| Amictoides Bezzi, 1909 .....   | 39.33 |
| Amydroneura Collin, 1926 (subg. of Rhamphomyia) .....                            | 39.25 |
| Anacrostichus Bezzi, 1909 (subg. of Empis) .....                                 | 39.21 |
| analisis (Thomson), 1868 (Hemerodromia), Neoplasta .....                         | 39.41 |
| angustipennis Bezzi, 1909, Empis .....   | 39.21 |
| annularis (Bezzi), 1909 (Tachydromia), Platypalpus .....                         | 39.6  |
| annulata Collin, 1933, Hoplopeza .....   | 39.16 |
| annulata (Philippi), 1865 (Pachymeria), Hilarigona .....                         | 39.38 |
| annulipes Bezzi, 1909, Synches .....   | 39.9  |
| annulipes Wheeler & Melander, 1901, Empis .....                                  | 39.21 |
| annulitarsis Smith, 1962, Oropezella .....                                       | 39.15 |
| Anodontina Macquart, 1838 .....  | 39.26 |
| anomalicauda Collin, 1933, Hilarigona .....                                      | 39.38 |

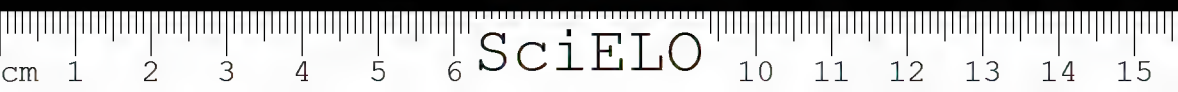


|   |       |
|---|-------|
| anomalipennis Smith, 1962, Oreogeton .....                          | 39.17 |
| antarctica (Walker), 1837 (Empis), Hilarempis .....                 | 39.33 |
| antennalis (Smith), 1962 (Tachydromia), Platypalpus .....           | 39.6  |
| Anthepiscopus Becker, 1891 .....                                    | 39.32 |
| anthracina Bigot, 1888, Empis .....                                 | 39.21 |
| antiquus Curran, 1931, Euhybus .....                                | 39.11 |
| Apalocnemis Philippi, 1865 .....                                    | 39.28 |
| apertus Collin, 1933, Oreogeton .....                               | 39.17 |
| apicalis (Bezzi), 1909 (Rhamphomyia), Macrostomus .....             | 39.29 |
| apicalis Smith, 1962, Hilara .....                                  | 39.36 |
| apicis (Williston), 1896 (Drapetis), Tachyempis .....               | 39.8  |
| Aplomera Macquart, 1838 .....                                       | 39.26 |
| arara Smith, 1962, Oropozella .....                                 | 39.15 |
| arcucinctus (Bezzi), 1909 (Rhamphomyia), Macrostomus .....          | 39.29 |
| ardopeodes Melander, 1927, Euhybus .....                            | 39.11 |
| argentata (Philippi), 1865 (Pachymeria), Hilarigona .....           | 39.38 |
| argentifera Bezzi, 1909, Hilarempis .....                           | 39.33 |
| argentula Becker, 1919, Hilarempis .....                            | 39.33 |
| Argyranthus Bezzi, 1909 (subg. of Empis) .....                      | 39.21 |
| argyrina Bezzi, 1909, Rhamphomyia .....                             | 39.25 |
| argyriventris Becker, 1919, Atrichopleura .....                     | 39.31 |
| argyrotarsis (Bezzi), 1909 (Rhamphomyia), Macrostomus .....         | 39.30 |
| argyrozona (Philippi), 1865 (Empis), Hilarempis .....               | 39.34 |
| argyrozona (Philippi), 1865 (Hilara), Hilarempis .....              | 39.34 |
| armata Collin, 1933, Hilara .....                                   | 39.36 |
| armipes (Bezzi), 1909, (Drapetis s. s.), Drapetis (Crossopalpus) .. | 39.2  |
| Asymphyloptera Collin, 1933 .....                                   | 39.44 |
| atra Wiedemann, 1830, Empis .....                                   | 39.21 |
| Atrichopleura Bezzi, 1909 .....                                     | 39.31 |
| atrifemur Wheeler & Melander, 1901, Empis .....                     | 39.21 |
| Austrodromia Collin, 1933 .....                                     | 39.5  |
| Azelempis Curran, 1931 .....  | 39.29 |
| azteca Wheeler & Melander, 1901, Empis .....                        | 39.21 |
|   |       |
| bacis (Walker), 1849 (Platypalpus), Drapetis (Elaphropeza) .....    | 39.3  |
| bakeri (Wheeler and Melander), 1901 (Hybos), Euhybus .....          | 39.11 |
| barbatula Bezzi, 1909, Hilarempis .....                             | 39.34 |
| barueri Smith, 1962, Drapetis (Elaphropeza) .....                   | 39.3  |
| barueri Smith, 1962, Macrostomus .....                              | 39.30 |
| barueri Smith, 1962, Metachela .....                                | 39.42 |
| barypterus Melander, 1927, Syneches .....                           | 39.9  |
| basalis Collin, 1933, Neoplasta .....                               | 39.41 |
| benigna (Osten Sacken), 1887 (Empis), Lampremis .....               | 39.19 |
| bezzii Smith, 1962, Lampremis .....                                 | 39.19 |
| Bicellaria Macquart, 1823 .....                                     | 39.16 |
| bicingulata Bezzi, 1909, Hilarempis .....                           | 39.34 |
| bicolor Bellardi, 1861, Empis .....                                 | 39.21 |
| bicolor (Bigot), 1888 (Sphegosa), Apalocnemis .....                 | 39.28 |
| bicolor (Bigot), 1889 (Brachystoma), Oreogeton .....                | 39.17 |
| bicolor (Philippi), 1865 (Hemerodromia), Cladodromia .....          | 39.40 |
| bicolor Philippi, 1865, Deuteragonista .....                        | 39.33 |
| bilineatus Collin, 1933, Oreogeton .....                            | 39.17 |
| biloba Smith, 1962, Oropozella .....                                | 39.15 |
| biseriata Collin, 1933, Hilarempis .....                            | 39.34 |
| biseticauda Smith, 1963, Drapetis (Elaphropeza) .....               | 39.3  |



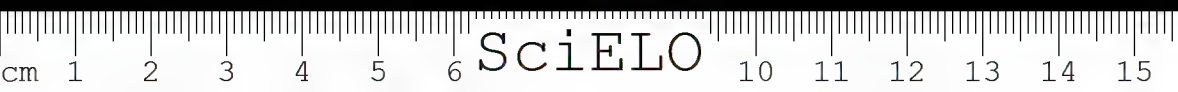


|   |       |
|---|-------|
| denotata Collin, 1933, Deuteragonista .....   | 39.33 |
| derodactylus Melander, 1927, Euhybus .....  | 39.12 |
| Deuteragonista Philippi, 1865 .....   | 39.33 |
| diaphorina (Osten-Sacken), 1887 (Empis), Lamprempis .....                                       | 39.20 |
| dichogenus Melander, 1927, Syneches .....   | 39.10 |
| dichroa (Collin), 1933 (Haplomera), Aplomera .....  | 39.27 |
| dichrous Bezzi, 1909, Syneches .....  | 39.10 |
| difficilis (Collin), 1933 (Haplomera), Aplomera .....   | 39.27 |
| digitatus Smith, 1962, Macrostomus .....  | 39.30 |
| digna Collin, 1933, Trichina .....  | 39.14 |
| digressa Collin, 1933, Trichina .....   | 39.14 |
| dimidiata (Bellardi), 1861 (Hybos), Lactistomyia .....  | 39.14 |
| dimidiatus (Loew), 1861 (Hybos), Euhybus .....  | 39.12 |
| dimidiatus (Walker), 1852 (Hybos), Euhybus .....  | 39.12 |
| dinopus Melander, 1928, Euhybus .....   | 39.12 |
| Dipsomyia Bezzi, 1909 .....   | 39.44 |
| discrepans Collin, 1933, Asymphyloptera .....   | 39.44 |
| discrepitans Collin, 1933, Hilara .....   | 39.37 |
| discreta Collin, 1933, Apalocnemis .....  | 39.28 |
| discreta Collin, 1933, Neoplasta .....  | 39.41 |
| disjuncta Collin, 1933, Empis .....   | 39.22 |
| distincta Collin, 1933, Apalocnemis .....   | 39.28 |
| distincta Collin, 1933, Empis .....   | 39.22 |
| distincta Collin, 1933, Trichina .....  | 39.14 |
| distinctipennis Smith, 1962, Macrostomus .....  | 39.30 |
| ditaeniata (Bezzi), 1909 (Clinocera, subg. Heleodromia), Hydro-<br>dromia .....                 | 39.44 |
| divergens Loew, 1872, Drapetis .....  | 39.2  |
| divinator Melander, 1947, Hemerodromia .....  | 39.43 |
| divisus Smith, 1962, Macrostomus .....  | 39.30 |
| dolihocerus (Bezzi), 1905 (Ramphomyia), Macrostomus .....                                       | 39.30 |
| dolichopodina (Schiner), 1868 (Empis), Lamprempis .....   | 39.20 |
| dolichopterus (Bezzi), 1909 (Rhamphomyia), Macrostomus .....                                    | 39.30 |
| dolorosa Wheeler & Melander, 1901, Empis .....  | 39.22 |
| dolosa Collin, 1933, Hilarempis .....   | 39.34 |
| donato Curran, 1931, Euhybus .....  | 39.12 |
| dorsiseta (Melander), 1918 (Eudrapetis), Drapetis (Crossopalpus)<br>Drapetis Meigen, 1822 ..... | 39.2  |
| dumetorum Philippi, 1865, Empis .....   | 39.22 |
| dumicola (Philippi), 1865 (Empis), Hilarempis .....   | 39.34 |
| duplex Melander, 1927, Syneches .....   | 39.10 |
| echinata Collin, 1933, Apalocnemis .....  | 39.28 |
| edentula Collin, 1933, Hemerodromia .....   | 39.43 |
| Elaphropeza Macquart, 1827 (subg. of Drapetis) .....  | 39.3  |
| electus (Melander), 1902 (Hybos), Euhybus .....   | 39.12 |
| elegans Bezzi, 1909, Hilarempis .....   | 39.34 |
| elegans (Bigot), 1888 (Ocydromia), Trichina .....   | 39.14 |
| elongata Collin, 1933, Apalocnemis .....  | 39.28 |
| eminens Collin, 1933, Rhamphomyia .....   | 39.26 |
| Empidadelpha Collin, 1928 .....   | 39.18 |
| Empidinae .....   | 39.16 |
| Empimorpha Coquillett, 1895 .....   | 39.20 |
| Empis Linnaeus, 1758 .....  | 39.20 |
| empodiata Collin, 1933, Clinocera .....   | 39.44 |
| enarrabilis Collin, 1933, Atrichopleura .....   | 39.31 |



|  |       |
|--|-------|
| <i>Eniplemis</i> Bigot, 1880 .....   | 39.20 |
| <i>epibosca</i> Melander, 1927, <i>Tachyempis</i> .....  | 39.8  |
| <i>Epiceia</i> Walker, 1860 (subg. of <i>Syneches</i> ) .....  | 39.9  |
| <i>Eriogaster</i> Macquart, 1838 .....   | 39.20 |
| <i>Eudrapetis</i> Melander, 1918 .....   | 39.2  |
| <i>Euhybos</i> , emend. ....   | 39.11 |
| <i>Euhybus</i> Coquillett, 1895 .....  | 39.11 |
| <i>eumerus</i> (Bezzi), 1909 ( <i>Tachydromia</i> ), <i>Platypalpus</i> .....  | 39.7  |
| <i>eurypterus</i> (Bezzi), 1909 ( <i>Hybos</i> ), <i>Euhybus</i> .....   | 39.12 |
| <i>excavata</i> Collin, 1933, <i>Neoplasta</i> .....   | 39.41 |
| <i>extimus</i> Collin, 1933, <i>Anthepiscopus</i> .....  | 39.32 |
| <i>extispex</i> Melander, 1947, <i>Hemerodromia</i> .....  | 39.43 |
| <i>facilis</i> Collin, 1933, <i>Hilarempis</i> .....   | 39.34 |
| <i>familiaris</i> Collin, 1933, <i>Hilarempis</i> .....  | 39.34 |
| <i>fasciventris</i> (Curran), 1931 ( <i>Axelempis</i> ), <i>Macrostomus</i> .....  | 39.30 |
| <i>fausta</i> Collin, 1933, <i>Atrichopleura</i> .....   | 39.32 |
| <i>femoralis</i> Bezzi, 1909, <i>Neoplasta</i> .....   | 39.41 |
| <i>femoralis</i> (Wheeler & Melander), 1901 ( <i>Drapetis</i> ), <i>Drapetis</i> ( <i>Cros-</i><br><i>sopaipus</i> ) ..... | 39.2  |
| <i>femorata</i> Melander, 1927, <i>Hemerodromia</i> .....  | 39.43 |
| <i>ferrugineus</i> (Fabricius), 1805 ( <i>Hybos</i> ), <i>Macrostomus</i> .....  | 39.30 |
| <i>fida</i> Collin, 1933, <i>Trichina</i> .....  | 39.15 |
| <i>fimbria</i> Walker, 1852, <i>Empis</i> .....  | 39.22 |
| <i>fimbriata</i> Collin, 1933, <i>Chelipoda</i> .....  | 39.39 |
| <i>flavella</i> Collin, 1933, <i>Metachela</i> .....   | 39.42 |
| <i>flavicornis</i> Melander, 1918, <i>Drapetis</i> .....   | 39.2  |
| <i>flavida</i> (Williston), 1896 ( <i>Drapetis</i> ), <i>Drapetis</i> ( <i>Elaphropeza</i> ) ....                          | 39.4  |
| <i>flavinervis</i> Philippi, 1865, <i>Empis</i> .....  | 39.22 |
| <i>flavipes</i> (Philippi), 1865 ( <i>Hemerodromia</i> ), <i>Cladodromia</i> .....   | 39.40 |
| <i>flavipes</i> (Williston), 1896, <i>Drapetis</i> .....   | 39.3  |
| <i>fortis</i> Bezzi, 1909, <i>Drapetis</i> .....   | 39.2  |
| <i>fortiseta</i> Smith, 1962, <i>Neoplasta</i> .....   | 39.41 |
| <i>fraterna</i> Collin, 1933, <i>Hilara</i> .....  | 39.37 |
| <i>fulva</i> (Philippi), 1865 ( <i>Empis</i> ), <i>Hilarempis</i> .....  | 39.34 |
| <i>fulva</i> (Walker), 1837 ( <i>Empis</i> ), <i>Hilarempis</i> .....  | 39.36 |
| <i>fulvicollis</i> Collin, 1933, <i>Empis</i> .....  | 39.22 |
| <i>fulvida</i> (Bezzi), 1904 ( <i>Tachista</i> ), <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                             | 39.4  |
| <i>fulvilata</i> Collin, 1933, <i>Deuteragonista</i> .....   | 39.33 |
| <i>fulvipes</i> (Philippi), 1865 ( <i>Pachymeria</i> ), <i>Hilarigona</i> .....  | 39.38 |
| <i>fulvithorax</i> (Curran), 1931 ( <i>Axelempis</i> ), <i>Macrostomus</i> .....   | 39.30 |
| <i>fumipennis</i> Collin, 1933, <i>Chelifera</i> .....   | 39.43 |
| <i>furcaticauda</i> Collin, 1933, <i>Austrodromia</i> .....  | 39.5  |
| <i>furcaticauda</i> Smith, 1962, <i>Lampremis</i> .....  | 39.20 |
| <i>furcifer</i> Wheeler & Melander, 1901, <i>Rhamphomyia</i> .....   | 39.26 |
| <i>fuscens</i> Bezzi, 1909, <i>Syneches</i> .....  | 39.10 |
| <i>fuscifurca</i> Smith, 1962, <i>Neoplasta</i> .....  | 39.42 |
| <i>fuscinana</i> Bezzi, 1909, <i>Cladodromia</i> .....   | 39.40 |
| <i>fuscus</i> (Philippi), 1865 ( <i>Brachystoma</i> ), <i>Oreogeton</i> .....  | 39.17 |
| <i>gagatina</i> Melander, 1927, <i>Tachyempis</i> .....  | 39.8  |
| <i>galactodes</i> Bezzi, 1909, <i>Rhamphomyia</i> .....  | 39.26 |
| <i>galbanata</i> Collin, 1933, <i>Rhamphomyia</i> .....  | 39.26 |
| <i>gayi</i> Macquart, 1838, <i>Aplomera</i> .....  | 39.27 |
| <i>gemmea</i> Bezzi, 1905, <i>Lampremis</i> .....  | 39.20 |

|  |       |
|--|-------|
| <i>genualis</i> Collin, 1933, <i>Hilarempis</i> .....  | 39.34 |
| <i>gilvipes</i> (Loew), 1872 ( <i>Drapetis</i> ), <i>Drapetis</i> ( <i>Crossopalpus</i> ) .....      | 39.2  |
| <i>globosa</i> Smith, 1962, <i>Sphicosa</i> .....  | 39.19 |
| <i>gracilipes</i> Philippi, 1865, <i>Empis</i> .....   | 39.22 |
| <i>grallatrix</i> (Bezzi), 1909 ( <i>Rhamphomyia</i> ), <i>Macrostomus</i> .....                     | 39.30 |
| <i>griseiventris</i> (Philippi), 1865 ( <i>Hilara</i> ), <i>Hilarempis</i> .....                     | 39.34 |
| <i>gryphus</i> Melander, 1927, <i>Euhybus</i> .....  | 39.12 |
| <i>guarini</i> Smith, 1962, <i>Atrichopleura</i> .....   | 39.32 |
| <i>gubernator</i> Collin, 1933, <i>Hilarempis</i> .....  | 39.34 |
| <i>gymnaspis</i> Bezzi, 1909, <i>Hilarempis</i> .....  | 39.34 |
| <i>gymnopoda</i> Bezzi, 1905 ( <i>Haplomera</i> ), <i>Aplomera</i> .....                             | 39.27 |
| <i>hallexus</i> Smith, 1963, <i>Euhybus</i> .....  | 39.12 |
| <i>Halsanolotes</i> Becker, 1902 .....   | 39.6  |
| <i>halteralis</i> Bezzi, 1909, <i>Hybos</i> .....  | 39.11 |
| <i>halterata</i> (Becker), 1919 ( <i>Gloma</i> ), <i>Apalocnemis</i> .....                           | 39.28 |
| <i>halterata</i> Collin, 1933, <i>Apalocnemis</i> .....  | 39.29 |
| <i>halterata</i> Melander, 1927, <i>Tachyempis</i> .....   | 39.8  |
| <i>hamatilis</i> Collin, 1933, <i>Chelipoda</i> .....  | 39.39 |
| <i>Haplomera</i> , emend. ....   | 39.26 |
| <i>Harpamerus</i> Bigot, 1859 (subg. of <i>Syneches</i> ) .....                                      | 39.9  |
| <i>Hemerodromia</i> Meigen, 1822 .....   | 39.43 |
| <i>Hemerodromiinae</i> .....   | 39.39 |
| <i>Heterempis</i> Brèthes, 1909 .....  | 39.33 |
| <i>Heterophlebus</i> Philippi, 1865 .....  | 39.16 |
| <i>hexachaeta</i> Collin, 1933, <i>Metachela</i> .....   | 39.42 |
| <i>Hilara</i> Meigen, 1822 .....   | 39.36 |
| <i>Hilarempis</i> Bezzi, 1905 .....  | 39.33 |
| <i>Hilarigona</i> Collin, 1933 .....   | 39.38 |
| <i>hirtipes</i> Bezzi, 1909, <i>Atrichopleura</i> .....  | 39.32 |
| <i>holosericea</i> (Thomson), 1868 ( <i>Hilara</i> ), <i>Apalocnemis</i> .....                       | 39.28 |
| <i>Homalocnemis</i> Philippi, 1865 .....   | 39.9  |
| <i>Hoplopeza</i> Bezzi, 1909 .....   | 39.16 |
| <i>humeralis</i> Collin, 1933, <i>Empis</i> .....  | 39.22 |
| <i>hyalina</i> Bezzi, 1909, <i>Lactistomyia</i> .....  | 39.14 |
| <i>hyalopterus</i> (Bezzi), 1905 ( <i>Hybos</i> ), <i>Euhybus</i> .....                              | 39.12 |
| <i>Hybos</i> Meigen, 1803 .....  | 39.11 |
| <i>Hybotinae</i> .....   | 39.9  |
| <i>Hydrodromia</i> Macquart, 1835 (subg. of <i>Clinocera</i> ) .....                                 | 39.44 |
| <i>Hyperperacera</i> Collin, 1933 .....  | 39.16 |
| <i>Hystrichonotus</i> Collin, 1933 .....   | 39.29 |
| <i>idonea</i> Collin, 1933, <i>Hilarempis</i> .....  | 39.35 |
| <i>immerens</i> Collin, 1933, <i>Hilara</i> .....  | 39.37 |
| <i>impar</i> Melander, 1946, <i>Empis</i> .....  | 39.22 |
| <i>imputata</i> Collin, 1933, <i>Empis</i> .....   | 39.22 |
| <i>inca</i> Bezzi, 1905, <i>Cladodromia</i> .....  | 39.40 |
| <i>inconstans</i> Collin, 1933, <i>Cladodromia</i> .....   | 39.40 |
| <i>indefinita</i> Collin, 1933, <i>Apalocnemis</i> .....   | 39.28 |
| <i>indifferens</i> Collin, 1933, <i>Austrodromia</i> .....   | 39.5  |
| <i>indiga</i> Collin, 1933, <i>Trichina</i> .....  | 39.15 |
| <i>induta</i> Bezzi, 1909, <i>Empis</i> .....  | 39.22 |
| <i>inermis</i> (Melander), 1918 ( <i>Eudrapetis</i> ), <i>Drapetis</i> ( <i>Crossopalpus</i> ) ..... | 39.3  |
| <i>inevoluta</i> Collin, 1933, <i>Clinorhampha</i> .....   | 39.27 |
| <i>inflexa</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                          | 39.4  |





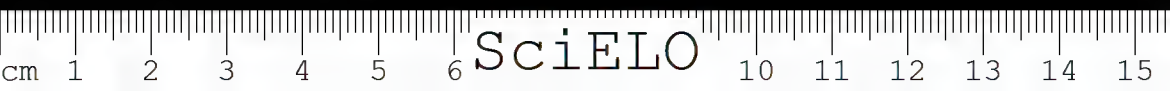
|  |       |
|--|-------|
| ingeniosa Collin, 1933, Apalocnemis .....                    | 39.28 |
| innocua Collin, 1933, Apalocnemis .....                      | 39.28 |
| inops Collin, 1933, Hilarempis .....                         | 39.35 |
| inornata Collin, 1933, Metachela .....                       | 39.42 |
| insignis Collin, 1933, Trichina .....                        | 39.15 |
| insolita Melander, 1902, Lactistomyia .....                  | 39.14 |
| insons Collin, 1933, Trichina .....                          | 39.15 |
| instabilis Collin, 1933, Metachela .....                     | 39.42 |
| insularis Brêthes, 1924, Hilarempis .....                    | 39.35 |
| insularis (Melander), 1910, (Tachydromia) Tachyempis .....   | 39.8  |
| integer (Walker), 1852 (Hybos), Euhybus .....                | 39.13 |
| intermedia Smith, 1962, Drapetis .....                       | 39.2  |
| intermedia Smith, 1962 Chelipoda .....                       | 39.39 |
| interserta Collin, 1933, Rhamphomyia .....                   | 39.26 |
| intonsa Collin, 1933, Apalocnemis .....                      | 39.28 |
| inversus Curran, 1928, Syneches .....                        | 39.10 |
| irritans Bezzi, 1909, Hilara .....                           | 39.37 |
| jaffueli Collin, 1933, Atrichopleura .....                   | 39.32 |
| juri Smith, 1962, Hilarempis .....                           | 39.35 |
| juri Smith, 1962, Macrostomus .....                          | 39.30 |
| Lactistomyia Melander, 1902 .....                            | 39.14 |
| laeta Collin, 1933, Trichina .....                           | 39.15 |
| laeta Melander, 1918, Drapetis (Elaphropeza) .....           | 39.4  |
| Lampremis Wheeler & Melander, 1901 .....                     | 39.19 |
| landbecki Philippi, 1865, Empis .....                        | 39.22 |
| languescens Collin, 1933, Empis .....                        | 39.22 |
| languida Collin, 1933, Hilarempis .....                      | 39.35 |
| lateralis Collin, 1933, Empis .....                          | 39.22 |
| laticornis (Bigot), 1888 (Hilara), Hilarempis .....          | 39.35 |
| latipennis (Bezzi), 1909 (Hybos), Euhybus .....              | 39.12 |
| lecta Collin, 1933, Sphicosa .....                           | 39.19 |
| Leptopeza Macquart, 1827 (lapsus calami) .....               | 39.15 |
| lenkoi Smith, 1962, Drapetis (Elaphropeza) .....             | 39.4  |
| leptideus (Philippi), 1865 (Brachystoma), Oreogeton .....    | 39.17 |
| leptogaster Melander, 1927, Euhybus .....                    | 39.12 |
| leptoneura Melander, 1927, Euhybus .....                     | 39.12 |
| Leptopeza Macquart, 1827 .....                               | 39.15 |
| leucophenga Bezzi, 1905, Rhamphomyia .....                   | 39.26 |
| leucostigma Bezzi, 1909, Empis .....                         | 39.22 |
| levicula Collin, 1933, Hilarempis .....                      | 39.35 |
| liberalis Collin, 1933, Empis .....                          | 39.22 |
| licina Collin, 1933, Acarteroptera .....                     | 39.9  |
| limbipennis (Bezzi), 1909 (Rhamphomyia), Macrostomus .....   | 39.30 |
| lindneri Engel, 1928, Lampremis .....                        | 39.20 |
| lineata (Collin), 1933 (Haplomera), Aplomera .....           | 39.27 |
| liodes Bezzi, 1909, Empis .....                              | 39.23 |
| Litanomyia Melander, 1902 .....                              | 39.39 |
| lobalis Thomson, 1868, Empis .....                           | 39.23 |
| loewi (Wheeler & Melander), 1901 (Hybos), Euhybus .....      | 39.12 |
| longicornis (Curran), 1931 (Coloboneura), Chersodromia ..... | 39.6  |
| longirostris Smith, 1962, Sphicosa .....                     | 39.19 |
| longispina Melander, 1927, Tachyempis .....                  | 39.8  |
| longiventris Melander, 1927, Syneches .....                  | 39.10 |



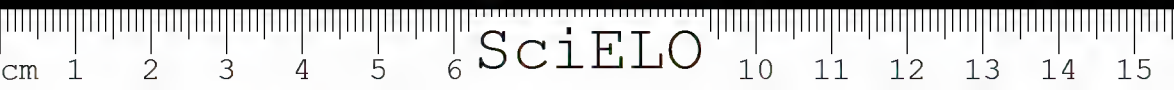
|   |       |
|---|-------|
| lucidilabris Bezzi, 1905, Empis .....   | 39.23 |
| lugens (Philippi), 1865 (? Hilara), Empis .....   | 39.23 |
| luridus Bezzi, 1909, Hybos .....  | 39.11 |
| lutea (Bezzi), 1909 (Phleboctena), Deuteronista .....   | 39.33 |
| luteicollis Melander, 1918, Drapetis (Elaphropeza) .....  | 39.4  |
| luteithorax Collin, 1933, Empis .....   | 39.23 |
| luteolimbata Collin, 1933, Hilara .....   | 39.37 |
| luteus (Wiedemann), 1830 (Hybos), Synches .....   | 39.10 |
| macerrimus (Bezzi), 1909 (Rhamphomyia), Macrostomus .....   | 39.30 |
| macrocera (Bigot), 1888 (Hilara), Aplomera .....  | 39.27 |
| macropalpis Smith, 1926, Drapetis (Elaphropeza) .....   | 39.4  |
| macrorrhyncha Philippi, 1865, Empis .....   | 39.23 |
| Macrestomus Wiedemann, 1817 .....   | 39.29 |
| macrura Bigot, 1889, Empis .....  | 39.23 |
| magellanica (Bigot), 1888 (Hilara), Hilarempis .....  | 39.35 |
| majerona Smith, 1962, Empis .....   | 39.23 |
| majerona Smith, 1962, Hilarigona .....  | 39.38 |
| makauriensis Smith, 1963, Euhybus .....   | 39.12 |
| maluinensis (Enderlein), 1912 (Hilara), Hilarempis .....  | 39.35 |
| mameluca Smith, 1962, Atrichopleura .....   | 39.32 |
| mammifera Curran, 1931, Lactistomyia .....  | 39.14 |
| manas Smith, 1962, Synches .....  | 39.10 |
| <i>Mantipeza</i> Rondani, 1856 .....  | 39.43 |
| maraua Smith, 1962, Empis .....   | 39.23 |
| marginata Smith, 1962, Drapetis (Elaphropeza) .....   | 39.4  |
| marginata Smith, 1962, Oropezella .....   | 39.15 |
| mauhes Smith, 1962, Atrichopleura .....   | 39.32 |
| maura Collin, 1933, Apalocnemis .....   | 39.28 |
| mazaruni Smith, 1963, Drapetis (Elaphropeza) .....  | 39.4  |
| media Collin, 1933, Trichina .....  | 39.15 |
| medialis (Collin), 1933 (Haplomera), Aplomera .....   | 39.27 |
| mediana Collin, 1933, Cladodromia .....   | 39.40 |
| mediana Collin, 1933, Hilarempis .....  | 39.35 |
| mediocris Collin, 1933, Apalocnemis .....   | 39.28 |
| mediocris Collin, 1933, Ceratomerus .....   | 39.45 |
| mediocris Collin, 1933, Oreogeton .....   | 39.17 |
| <i>Megacyttarus</i> Bigot, 1880 .....   | 39.25 |
| melanderi Smith, 1962, Tachyempis .....   | 39.8  |
| <i>melanogaster</i> (Philippi), 1865 (Brachystoma, subg. <i>Heterophlebus</i> ),<br>Oreogeton ..... | 39.17 |
| mellipes Wheeler & Melander, 1901, Hybos .....  | 39.11 |
| mendozaana (Brèthes), 1924 (Heterempis), Hilarempis .....   | 39.35 |
| meridionalis Engel, 1928, Lampremis .....   | 39.19 |
| merita Collin, 1933, Clinorhampha .....   | 39.28 |
| mesomelaena (Bezzi), 1909 (subg. <i>Microdromia</i> ), <i>Hemerodromia</i> .....                    | 39.43 |
| <i>Metachela</i> Coquillett, 1903 .....   | 39.42 |
| metallica Smith, 1962, Oropezella .....   | 39.15 |
| metapleuris Collin, 1933, Trichohilara .....  | 39.19 |
| mexicana (Melander), 1902 ( <i>Hemerodromia</i> ), <i>Neoplasta</i> .....                           | 39.42 |
| mexicana (Melander), 1918 ( <i>Eudrapetis</i> ), <i>Drapetis</i> ( <i>Crossopalpus</i> ) .....      | 39.3  |
| mexicana (Wheeler & Melander), 1901 ( <i>Sciudromia</i> ), <i>Chelipoda</i> ..                      | 39.39 |
| micans Schiner, 1868, Empis .....   | 39.23 |
| micrargyra Bezzi, 1909, Rhamphomyia .....   | 39.26 |
| Micrempis Melander, 1927 .....  | 39.4  |



|  |       |
|--|-------|
| <i>micropyga</i> Bezzi, 1905, <i>Empis</i> .....   | 39.23 |
| <i>minima</i> Collin, 1933, <i>Cladodromia</i> .....   | 39.40 |
| <i>minuta</i> Williston, 1896, <i>Drapetis</i> .....   | 39.2  |
| <i>mirhana</i> Smith, 1962, <i>Hilara</i> .....  | 39.37 |
| <i>miripes</i> Collin, 1933, <i>Empis</i> .....  | 39.23 |
| <i>modesta</i> (Philippi), 1865 ( <i>Pachymeria</i> ), <i>Hilarigona</i> .....                                       | 39.38 |
| <i>modica</i> Collin, 1933, <i>Empis</i> .....   | 39.23 |
| <i>mollis</i> Collin, 1933, <i>Rhamphomyia</i> .....   | 39.26 |
| <i>mollita</i> Collin, 1933, <i>Empis</i> .....  | 39.23 |
| <i>mollitus</i> (Collin), 1933 ( <i>Tachydromia</i> ), <i>Platypalpus</i> .....                                      | 39.7  |
| <i>monochaeta</i> (Bezzi), 1909 ( <i>Ctenodrapetis</i> ), <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....               | 39.4  |
| <i>monstrosa</i> Bezzi, 1909, <i>Rhamphomyia</i> .....   | 39.26 |
| <i>montezuma</i> Wheeler & Melander, 1901, <i>Empis</i> .....  | 39.23 |
| <i>moraballi</i> Smith, 1963, <i>Syneches</i> .....  | 39.10 |
| <i>moreirai</i> Brêthes, 1924, <i>Hilarempis</i> .....   | 39.35 |
| <i>mundurucu</i> Smith, 1962, <i>Atrichopleura</i> .....   | 39.32 |
| <i>mundurucu</i> Smith, 1962, <i>Macrostomus</i> .....   | 39.30 |
| <i>mura</i> Smith, 1962, <i>Macrostomus</i> .....  | 39.30 |
| <i>necopinata</i> Collin, 1933, <i>Clinorhampha</i> .....  | 39.28 |
| <i>negundus</i> Curran, 1931, <i>Euhybus</i> .....   | 39.12 |
| <i>nemoralis</i> (Philippi), 1865 ( <i>Brachystoma</i> , subg. <i>Heterophlebus</i> ),<br><i>Hyperperacera</i> ..... | 39.16 |
| <i>Neocota</i> Coquillett, 1896 .....  | 39.25 |
| <i>Neoplasta</i> Coquillett, 1895 .....  | 39.41 |
| <i>neotropicus</i> Bezzi, 1909, <i>Hybos</i> .....   | 39.11 |
| <i>nigra</i> Melander, 1927, <i>Tachyempis</i> .....   | 39.8  |
| <i>nigra</i> Philippi, 1865, <i>Sphicosa</i> .....   | 39.19 |
| <i>nigricans</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....  | 39.4  |
| <i>nigricolor</i> Collin, 1933, <i>Empis</i> .....   | 39.23 |
| <i>nigricornis</i> (Philippi), 1865 ( <i>Brachystoma</i> ), <i>Oreogeton</i> .....                                   | 39.17 |
| <i>nigrimana</i> (Philippi), 1865 ( <i>Hemerodromia</i> ), <i>Cladodromia</i> .....                                  | 39.40 |
| <i>nigrinotum</i> Smith, 1962, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....  | 39.4  |
| <i>nigripennis</i> Philippi, 1865, <i>Homalocnemis</i> .....   | 39.9  |
| <i>nigripes</i> Curran, 1931, <i>Lactistomyia</i> .....  | 39.14 |
| <i>nigriventris</i> (Macquart), 1846 ( <i>Rhamphomyia</i> ), <i>Macrostomus</i> .....                                | 39.30 |
| <i>nigrocalcarata</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                                   | 39.4  |
| <i>nitens</i> (Melander), 1918 ( <i>Eudrapetis</i> ), <i>Drapetis</i> ( <i>Crossopalpus</i> ) .....                  | 39.3  |
| <i>nitida</i> Bezzi, 1909, <i>Atrichopleura</i> .....  | 39.32 |
| <i>nitida</i> Collin, 1933, <i>Cladodromia</i> .....   | 39.40 |
| <i>Noeza</i> Meigen, 1800 .....  | 39.11 |
| <i>notabilis</i> Collin, 1933, <i>Hilarempis</i> .....   | 39.35 |
| <i>notogramma</i> (Bezzi), 1905 ( <i>Haplomera</i> ), <i>Aplomera</i> .....  | 39.27 |
| <i>nudifacies</i> Bezzi, 1905, <i>Hilarempis</i> .....   | 39.35 |
| <i>nudipes</i> (Macquart), 1838 ( <i>Empis</i> ), <i>Aplomera</i> .....  | 39.27 |
| <i>nugatoria</i> Collin, 1933, <i>Hemerodromia</i> .....   | 39.43 |
| <i>obeliscus</i> Bezzi, 1909, <i>Syneches</i> .....  | 39.10 |
| <i>obscura</i> Philippi, 1865, <i>Apalocnemis</i> .....  | 39.28 |
| <i>obscurata</i> Collin, 1933, <i>Trichina</i> .....   | 39.15 |
| <i>obscurata</i> (Philippi), 1865 ( <i>Pachymeria</i> ), <i>Hilarigona</i> .....                                     | 39.38 |
| <i>obscuripennis</i> Philippi, 1865, <i>Drapetis</i> .....   | 39.2  |
| <i>obscuripennis</i> (Philippi), 1865 ( <i>Pachymeria</i> ), <i>Hilarigona</i> .....                                 | 39.38 |
| <i>obtusipennis</i> Collin, 1933, <i>Chelipoda</i> .....   | 39.39 |
| <i>occipitalis</i> Collin, 1933, <i>Hilara</i> .....   | 39.37 |
| <i>ochracea</i> (Bigot), 1888 ( <i>Heleodromia</i> ), <i>Apalocnemis</i> .....                                       | 39.29 |

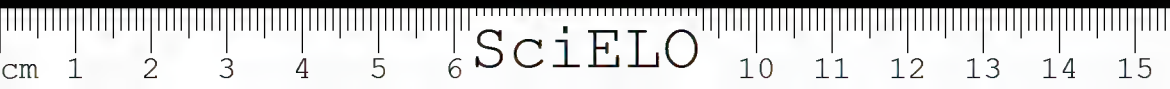


|   |       |
|---|-------|
| ochraceus Collin, 1933, Chelipodozus .....                              | 39.40 |
| ochropus Philippi, 1865, Empis .....                                    | 39.23 |
| ocreatus Melander, 1927, Euhybus .....                                  | 39.12 |
| Ocydromiinae .....  | 39.14 |
| oedimera (Melander), 1918 (Eudrapetis), Drapetis (Crossopalpus) .....   | 39.3  |
| omissa Collin, 1933, Empis .....  | 39.23 |
| Opeatocerata Melander, 1927 .....                                       | 39.18 |
| optabilis Collin, 1933, Empis .....                                     | 39.23 |
| ordinata Collin, 1933, Hilarempis .....                                 | 39.35 |
| Oreogeton Schiner, 1860 .....   | 39.16 |
| Oropezella Collin, 1926 .....   | 39.15 |
| orphanus (Collin), 1933 (Tachydromia), Platypalpus .....                | 39.7  |
| orthoneura (Bezzi), 1905 (Rhamphomyia), Macrostomus .....               | 39.31 |
| otiosa Collin, 1933, Hilarempis .....                                   | 39.35 |
| pachymera (Macquart), 1838 (Empis), Aplomera .....                      | 39.27 |
| <i>Pachymeria</i> Stephens, 1829 .....                                  | 39.20 |
| pachymerina Schiner, 1868, Empis .....                                  | 39.24 |
| pachystoma Philippi, 1865, Empis .....                                  | 39.24 |
| palliatius (Coquillett), 1902 (Sciodyromia), Macrostomus .....          | 39.31 |
| pallida (Philippi), 1865 (Hemerodromia), Chelifera .....                | 39.43 |
| pallida (Philippi), 1865 (?Hilara), Hilarempis .....                    | 39.35 |
| panamensis Curran, 1931, Euhybus .....                                  | 39.13 |
| panamensis Curran, 1931, Lactistomyia .....                             | 39.14 |
| papillatus (Collin), 1933 (Tachydromia), Platypalpus .....              | 39.7  |
| paradoxus Philippi, 1865, Ceratomerus .....                             | 39.45 |
| paralis Collin, 1933, Empis .....                                       | 39.24 |
| Pararhamphomyia Frey, 1922 (subg. of Rhamphomyia) .....                 | 39.25 |
| particularis (Collin), 1933 (Haplomera), Aplomera .....                 | 39.27 |
| parvicauda Collin, 1933, Neoplasta .....                                | 39.42 |
| Pasitrichotus Collin, 1933 .....  | 39.32 |
| patula Collin, 1933, Metachela .....                                    | 39.42 |
| paulseni (Philippi), 1865 (Tachydromia), Platypalpus .....              | 39.7  |
| pegasus Osten Sacken, 1887, Empis .....                                 | 39.24 |
| penicillata Bezzi, 1909, Rhamphomyia .....                              | 39.26 |
| pennescens (Melander), 1918 (Eudrapetis), Drapetis (Crossopalpus) ..... | 39.3  |
| penniventris Bezzi, 1909, Empis .....                                   | 39.24 |
| <i>penthophora</i> Wiedemann, 1830, Empis .....                         | 39.21 |
| perplexa Bezzi, 1909, Hilara .....                                      | 39.37 |
| perplexa Smith, 1962 Drapetis (Crossopalpus) .....                      | 39.3  |
| perpulchrus (Bezzi), 1909 (Rhamphomyia), Macrostomus .....              | 39.31 |
| perpusilla Collin, 1933, Empis .....                                    | 39.24 |
| persephone (Collin), 1933 (Tachydromia), Platypalpus .....              | 39.7  |
| perturbans Bezzi, 1909, Hilara .....                                    | 39.37 |
| pexata Collin, 1933, Hilarigona .....                                   | 39.39 |
| phaeopterus Bezzi, 1905, Syneches .....                                 | 39.10 |
| philippii Bezzi, 1909, Hilarempis .....                                 | 39.34 |
| philippii (Bigot), 1889 (Ocydromia), Hyperperacera .....                | 39.16 |
| philippii Smith, 1962, Apalocnemis .....                                | 39.29 |
| <i>Phleboctena</i> Bezzi, 1909 .....                                    | 39.33 |
| <i>Phoneutisca</i> Loew, 1863 .....                                     | 39.6  |
| <i>Phyllodromia</i> , authors .....                                     | 39.39 |
| piceus (Wiedemann), 1830 (Hybos), Euhybus .....                         | 39.13 |
| picta Loew, 1863, Empis .....   | 39.24 |
| pictipennis (Bezzi), 1909 (Rhamphomyia), Macrostomus .....              | 39.31 |



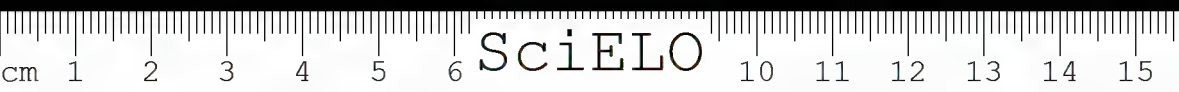


|   |       |
|---|-------|
| <i>pictipennis</i> (Bezzi), 1909 (Tachydromia), <i>Platypalpus</i> .....                              | 39.7  |
| <i>pictipes</i> Melander, 1927, <i>Tachyempis</i> .....   | 39.8  |
| <i>pilosiformis</i> (Bezzi), 1909 (Hybos), <i>Euhybus</i> .....                                       | 39.13 |
| <i>pilosus</i> (Schiner), 1868 (Hybos), <i>Euhybus</i> .....  | 39.13 |
| <i>planiceps</i> Melander, 1927, <i>Syneches</i> .....  | 39.10 |
| <i>Platypalpus</i> Macquart, 1827 .....   | 39.6  |
| <i>Platyptera</i> Meigen, 1803 .....  | 39.20 |
| <i>plaumanni</i> Smith, 1962, <i>Sphicosa</i> .....   | 39.19 |
| <i>pleuralis</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                         | 39.4  |
| <i>pleurica</i> Collin, 1933, <i>Neoplasta</i> .....  | 39.42 |
| <i>plorator</i> Collin, 1933, <i>Apalocnemis</i> .....  | 39.29 |
| <i>plumea</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                            | 39.4  |
| <i>plumipes</i> (Melander), 1918 ( <i>Eudrapetis</i> ), <i>Drapetis</i> ( <i>Crossopalpus</i> ) ..... | 39.3  |
| <i>plurivittata</i> Bezzi, 1909, <i>Cladodromia</i> .....   | 39.41 |
| <i>pluto</i> Melander, 1902, <i>Platypalpus</i> .....   | 39.7  |
| <i>poecilus</i> (Philippi), 1865 ( <i>Empis</i> ), <i>Allochrotus</i> .....                           | 39.18 |
| <i>polita</i> Collin, 1933, <i>Hilarigona</i> .....   | 39.39 |
| <i>polita</i> Macquart, 1838, <i>Empis</i> .....  | 39.24 |
| <i>pollinosa</i> Collin, 1933, <i>Cladodromia</i> .....   | 39.41 |
| <i>Polyblepharis</i> Bezzi, 1909 (subg. of <i>Empis</i> ) .....                                       | 39.21 |
| <i>polychaeta</i> Bezzi, 1905, <i>Hilarempis</i> .....  | 39.35 |
| <i>polychaeta</i> Smith, 1962, <i>Austrodromia</i> .....  | 39.5  |
| <i>Porphyrochroa</i> Melander, 1927 .....   | 39.29 |
| <i>porteri</i> Brèthes, 1924, <i>Rhamphomyia</i> .....  | 39.26 |
| <i>praesumpta</i> Collin, 1933, <i>Homalocnemis</i> .....   | 39.9  |
| <i>pratincta</i> (Philippi), 1865 ( <i>Hemerodromia</i> ), <i>Cladodromia</i> .....                   | 39.41 |
| <i>Proagomyia</i> Collin, 1933 .....  | 39.45 |
| <i>procurrens</i> Melander, 1927, <i>Drapetis</i> .....   | 39.2  |
| <i>producta</i> Collin, 1933, <i>Hilarigona</i> .....   | 39.39 |
| <i>prominens</i> Collin, 1933, <i>Empis</i> .....   | 39.21 |
| <i>prompta</i> Collin, 1933, <i>Empis</i> .....   | 39.24 |
| <i>propinqua</i> Collin, 1933, <i>Hilarempis</i> .....  | 39.35 |
| <i>propygalis</i> Collin, 1933, <i>Neoplasta</i> .....  | 39.42 |
| <i>proserpina</i> (Bezzi), 1909 (Tachydromia), <i>Platypalpus</i> .....                               | 39.7  |
| <i>prothoracalis</i> Collin, 1933, <i>Atrichopleura</i> .....   | 39.32 |
| <i>Pterempis</i> Bezzi, 1909 (subg. of <i>Empis</i> ) .....   | 39.21 |
| <i>Pterospilus</i> Rondani, 1856 .....  | 39.9  |
| <i>pterostigma</i> Collin, 1933, <i>Oreogeton</i> .....   | 39.17 |
| <i>pubescens</i> Collin, 1933, <i>Neoplasta</i> .....   | 39.42 |
| <i>pudens</i> Collin, 1933, <i>Oreogeton</i> .....  | 39.17 |
| <i>pudica</i> Collin, 1933, <i>Hilarigona</i> .....   | 39.39 |
| <i>puerilis</i> Melander, 1947, <i>Neoplasta</i> .....  | 39.42 |
| <i>pulchriventris</i> (Bezzi), 1905 ( <i>Rhamphomyia</i> ), <i>Macrostomus</i> .....                  | 39.31 |
| <i>pullata</i> Collin, 1933, <i>Empis</i> .....   | 39.24 |
| <i>purpuripalpis</i> Smith, 1926, <i>Tachyempis</i> .....   | 39.8  |
| <i>pusillus</i> Loew, 1861, <i>Syneches</i> .....   | 39.10 |
| <i>pygalis</i> Collin, 1933, <i>Neoplasta</i> .....   | 39.42 |
| <i>pyramidatus</i> Bezzi, 1905, <i>Syneches</i> .....   | 39.10 |
| <i>Pyrrempis</i> Melander, 1927 (subg. of <i>Empis</i> ) .....  | 39.21 |
| <i>quadrangularis</i> Wheeler & Melander, 1901, <i>Syneches</i> .....                                 | 39.10 |
| <i>quadricinctus</i> (Fabricius), 1805 ( <i>Damalis</i> ), <i>Syneches</i> .....                      | 39.10 |
| <i>quadrifaria</i> Becker, 1919, <i>Hilarempis</i> .....  | 39.35 |
| <i>quadrimaculatus</i> (Smith), 1962 ( <i>Tachydromia</i> ), <i>Platypalpus</i> .....                 | 39.7  |

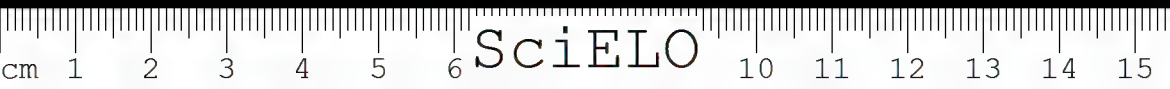




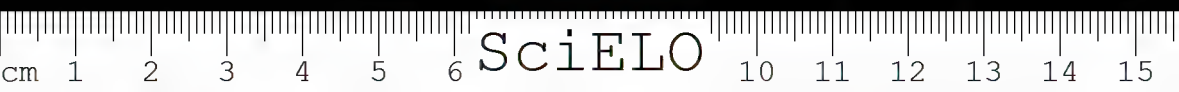
|  |       |
|--|-------|
| quadriseta (Collin), 1933 (Tachydromia), Platypalpus .....                         | 39.7  |
| quadrisetosa (Melander), 1918 (Eudrapetis), Drapetis (Crosso-<br>palpus) .....     | 39.3  |
| quadrivittata Lynch Arribálzaga, 1878, Empis .....                                 | 39.24 |
| racemata Collin, 1933, Apalocnemis .....   | 39.29 |
| recordabilis Collin, 1933, Empis .....   | 39.24 |
| recta Collin, 1933, Acarteroptera .....  | 39.9  |
| rectineura Melander, 1918, Drapetis (Elaphropeza) .....                            | 39.4  |
| reducta Collin, 1933, Hilara .....   | 39.37 |
| reflexa Melander, 1947, Hemerodromia .....   | 39.43 |
| remissa Collin, 1933, Chelipoda .....  | 39.39 |
| repletus Bezzi, 1909, Syneches .....   | 39.10 |
| retroversa Collin, 1933, Empis .....   | 39.24 |
| revelator Collin, 1933, Hystrichonotus .....                                       | 39.29 |
| rhabdoptera Melander, 1927, Chelipoda .....  | 39.39 |
| Rhamphomyia Meigen, 1822 .....   | 39.25 |
| richardsi Smith, 1963, Euhybus .....   | 39.13 |
| rivosa (Bigot), 1888 (Lemtopeza), Leptopeza .....                                  | 39.15 |
| rodriguezi Carrera, 1954, Hilarempis .....   | 39.36 |
| rostrata Collin, 1933, Apalocnemis .....   | 39.29 |
| rotundipennis (Bezzi), 1905 (Rhamphomyia), Macrostomus .....                       | 39.31 |
| rubida (Wheeler & Melander), 1901 (Empis), Opeatocera .....                        | 39.18 |
| rubripes (Philippi), 1865 (Pachymeria), Hilarigona .....                           | 39.39 |
| rufescens Melander, 1927, Colabris .....   | 39.44 |
| ruficollis (Walker), 1852 (Hybos), Syneches .....                                  | 39.10 |
| ruficornis Melander, 1927, Tachyempis .....  | 39.8  |
| sachem Melander, 1927, Tachydromia .....   | 39.6  |
| salesopolis Smith, 1962, Apalocnemis .....   | 39.29 |
| sanguinea (Lynch Arribálzaga), 1878 (Tachydromia), Drapetis<br>(Elaphropeza) ..... | 39.4  |
| scapulifera (Bigot), 1889 (Microphorus), Atrichopleura .....                       | 39.32 |
| Scelolabes Philippi, 1865 .....  | 39.16 |
| schildi Melander, 1927, Euhybus .....  | 39.13 |
| schildi Melander, 1927, Tachyempis .....   | 39.8  |
| schmusei Bezzi, 1909, Atrichopleura .....  | 39.32 |
| schmusei Bezzi, 1909, Cerathybos .....   | 39.14 |
| schrottkeyi (Bezzi), 1909 (Haplomera), Aplomera .....                              | 39.27 |
| sciapterus Melander, 1927, Hybos .....   | 39.11 |
| semifulvus (Bigot), 1889 (Microphorus), Platypalpus .....                          | 39.7  |
| semilugens (Philippi), 1865 (Hemerodromia), Cladodromia .....                      | 39.41 |
| seminigra Melander, 1918, Dreapetis (Elaphropeza) .....                            | 39.4  |
| seposita Collin, 1933, Rhamphomyia .....   | 39.26 |
| septentrionalis Melander, 1902, Drapetis (Crossopalpus) .....                      | 39.3  |
| sequens (Melander), 1902 (Hybos), Lactistomyia .....                               | 39.14 |
| serrata Bezzi, 1909, Lactistomyia .....  | 39.14 |
| seticauda Smith, 1963, Macrostomus .....   | 39.31 |
| setigera Coquillett, 1903, Lampremis .....   | 39.20 |
| setipalpis Smith, 1962, Sphicosa .....   | 39.19 |
| setipleura Smith, 1962, Hilara .....   | 39.37 |
| setulis Collin, 1933, Hilarigona .....   | 39.39 |
| shumana Smith, 1962, Empis .....   | 39.24 |
| shumana Smith, 1962, Hilarempis .....  | 39.36 |



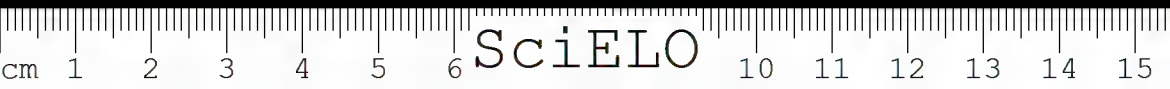
|  |       |
|--|-------|
| <i>Sicodus</i> Rafinesque, 1815 .....  | 39.6  |
| <i>Sicus</i> Latreille, 1796 .....   | 39.6  |
| <i>sigillata</i> Collin, 1933, <i>Hilarempis</i> .....                                       | 39.35 |
| <i>significans</i> Collin, 1933, <i>Pasitrichotus</i> .....                                  | 39.32 |
| <i>similipes</i> Collin, 1933, <i>Hilarempis</i> .....                                       | 39.35 |
| <i>similis</i> Collin, 1933, <i>Hilarigona</i> .....   | 39.39 |
| <i>smithi</i> Smith, 1962, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                      | 39.4  |
| <i>simplicior</i> (Wheeler & Melander), 1901 ( <i>Phoneutisca</i> ), <i>Tachyempis</i> ..... | 39.8  |
| <i>simplicipes</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....              | 39.5  |
| <i>smarti</i> Smith, 1963, <i>Euhybus</i> .....  | 39.13 |
| <i>smithi</i> (Wheeler & Melander), 1901 ( <i>Hybos</i> ), <i>Euhybus</i> .....              | 39.13 |
| <i>sobrina</i> Collin, 1933, <i>Empidadelphina</i> .....                                     | 39.18 |
| <i>solitaria</i> Collin, 1933, <i>Apalocnemis</i> .....                                      | 39.29 |
| <i>spadix</i> Melander, 1947, <i>Neoplasta</i> .....   | 39.42 |
| <i>sp.</i> Collin, 1933, <i>Aplomera</i> .....   | 39.27 |
| <i>sp.</i> Collin, 1933, <i>Drapetis</i> ( <i>Drapetis</i> ) .....                           | 39.2  |
| <i>sp.</i> Collin, 1933, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                        | 39.5  |
| <i>sp.</i> Collin, 1933, <i>Metachela</i> .....  | 39.42 |
| <i>sp.</i> Collin, 1933, <i>Trichina</i> .....   | 39.15 |
| <i>sp.</i> Smith, 1962, <i>Hilarempis</i> .....  | 39.36 |
| <i>sp.</i> Smith, 1963, <i>Oropezella</i> .....  | 39.15 |
| <i>sp.</i> (Smith), 1962 ( <i>Tachydromia</i> ), <i>Platypalpus</i> .....                    | 39.7  |
| <i>sp.</i> Williston, 1896, <i>Drapetis</i> ( <i>Crossopalpus</i> ) .....                    | 39.3  |
| <i>sp.</i> Williston, 1896, <i>Hemerodromia</i> .....  | 39.43 |
| <i>Sphicosa</i> Philippi, 1865 .....   | 39.18 |
| <i>spiloptera</i> Wiedemann, 1830, <i>Empis</i> .....  | 39.24 |
| <i>spinicosta</i> Wheeler & Melander, 1901, <i>Hybos</i> .....                               | 39.11 |
| <i>spinifera</i> Bezzi, 1909, <i>Dipsomyia</i> .....   | 39.44 |
| <i>spinifera</i> Bezzi, 1909, <i>Empis</i> .....   | 39.24 |
| <i>spiniger</i> Melander, 1927, <i>Euhybus</i> .....   | 39.13 |
| <i>spinipes</i> Collin, 1933, <i>Atrichopleura</i> .....                                     | 39.32 |
| <i>spinosa</i> Bezzi, 1909, <i>Hilarempis</i> .....  | 39.36 |
| <i>spinosus</i> (Curran), 1928 ( <i>Hybos</i> ), <i>Euhybus</i> .....                        | 39.13 |
| <i>spinulosa</i> (Philippi), 1865 ( <i>Empis</i> ), <i>Aplomera</i> .....                    | 39.27 |
| <i>squamipes</i> Coquillett, 1903, <i>Empis</i> .....  | 39.24 |
| <i>stenostoma</i> Collin, 1933, <i>Hilarempis</i> .....                                      | 39.36 |
| <i>stethica</i> Collin, 1933, <i>Hilara</i> .....  | 39.37 |
| <i>stigmatica</i> Collin, 1933, <i>Cladodromia</i> .....                                     | 39.41 |
| <i>stigmatica</i> Collin, 1933, <i>Deuteronista</i> .....                                    | 39.33 |
| <i>stigmatalis</i> Bezzi, 1909, <i>Syneches</i> .....  | 39.10 |
| <i>stigmaticus</i> (Philippi), 1865 ( <i>Brachystoma</i> ), <i>Oreogeton</i> .....           | 39.17 |
| <i>stigmaticus</i> (Schiner), 1868 ( <i>Hybos</i> ), <i>Euhybus</i> .....                    | 39.13 |
| <i>suavis</i> (Loew), 1869 ( <i>Empis</i> ), <i>Lampremis</i> .....                          | 39.20 |
| <i>subarmata</i> Collin, 1933, <i>Hilara</i> .....   | 39.37 |
| <i>subflava</i> Collin, 1933, <i>Chelipoda</i> .....   | 39.40 |
| <i>subjectus</i> (Walker), 1849 ( <i>Hybos</i> ), <i>Euhybus</i> .....                       | 39.13 |
| <i>subpennata</i> Collin, 1933, <i>Hilara</i> .....  | 39.37 |
| <i>superba</i> (Loew), 1861 ( <i>Empis</i> ), <i>Lampremis</i> .....                         | 39.20 |
| <i>Syneches</i> Walker, 1852 .....   | 39.9  |
| <i>tabascensis</i> (Wheeler & Melander), 1901 ( <i>Hybos</i> ), <i>Euhybus</i> .....         | 39.13 |
| <i>Tachista</i> Loew, 1864 .....   | 39.6  |
| <i>Tachydromia</i> Meigen, 1803 .....  | 39.6  |
| <i>Tachydromiinae</i> .....  | 39.2  |
| <i>Tachyempis</i> Melander, 1927 .....   | 39.8  |



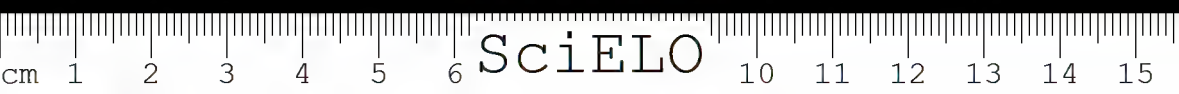
|   |       |
|---|-------|
| <i>Tachysta</i> Loew, 1864 .....  | 39.6  |
| <i>talaris</i> Collin, 1933, <i>Austrodromia</i> .....  | 39.5  |
| <i>tanyptera</i> Collin, 1933, <i>Cladodromia</i> .....   | 39.41 |
| <i>taquara</i> Smith, 1962, <i>Oropezeella</i> .....  | 39.16 |
| <i>tenera</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....  | 39.5  |
| <i>Tenontomyia</i> White, 1916 .....  | 39.17 |
| <i>tenuipes</i> Collin, 1933, <i>Oreogeton</i> .....  | 39.18 |
| <i>tephrodes</i> (Philippi), 1865 ( <i>Rhamphomyia</i> ), <i>Atrichopleura</i> .....                              | 39.32 |
| <i>tephrodes</i> (Philippi), 1865 ( <i>Empis</i> ), <i>Hilarempis</i> .....                                       | 39.36 |
| <i>terminalis</i> Collin, 1933, <i>Deuteronista</i> .....   | 39.33 |
| <i>testaceus</i> (Philippi), 1865 ( <i>Brachystoma</i> ), <i>Oreogeton</i> .....                                  | 39.18 |
| <i>testaceus</i> Philippi, 1865, <i>Platypalpus</i> .....   | 39.7  |
| <i>tetrachaeta</i> Melander, 1927, <i>Tachyempis</i> .....  | 39.8  |
| <i>thermophila</i> Wiedemann, 1830, <i>Empis</i> .....  | 39.24 |
| <i>Thinodromia</i> Melander, 1906 .....   | 39.6  |
| <i>thoracica</i> Collin, 1933, <i>Deuteronista</i> .....  | 39.33 |
| <i>thoracicus</i> (Philippi), 1865 ( <i>Brachystoma</i> , subg. <i>Heterophlebus</i> ),<br><i>Oreogeton</i> ..... | 39.18 |
| <i>thrixothrix</i> Melander, 1927, <i>Euhybus</i> .....   | 39.13 |
| <i>tibialis</i> Collin, 1933, <i>Hilarempis</i> .....   | 39.36 |
| <i>Timalphes</i> Melander, 1927 .....   | 39.28 |
| <i>tolteca</i> Wheeler & Melander, 1901, <i>Rhamphomyia</i> .....   | 39.26 |
| <i>tomentosus</i> Smith, 1962, <i>Syneches</i> .....  | 39.10 |
| <i>tonsilis</i> Collin, 1933, <i>Hilara</i> .....   | 39.37 |
| <i>torrentium</i> Collin, 1933, <i>Proagomyia</i> .....   | 39.45 |
| <i>totipennis</i> Bellardi, 1861, <i>Empis</i> .....  | 39.24 |
| <i>transilis</i> Collin, 1933, <i>Neoplasta</i> .....   | 39.42 |
| <i>tribulis</i> Collin, 1933, <i>Empis</i> .....  | 39.24 |
| <i>Trichina</i> Meigen, 1830 .....  | 39.14 |
| <i>Trichohilara</i> Collin, 1933 .....  | 39.19 |
| <i>trichoscelis</i> Collin, 1933, <i>Empis</i> .....  | 39.24 |
| <i>triplex</i> Loew, 1861, <i>Euhybus</i> .....   | 39.12 |
| <i>triplex</i> (Walker), 1849 ( <i>Hybos</i> ), <i>Euhybus</i> .....  | 39.13 |
| <i>trivialis</i> Wheeler & Melander, 1902, <i>Platypalpus</i> .....   | 39.7  |
| <i>truncatus</i> Smith, 1962, <i>Lampremis</i> .....  | 39.20 |
| <i>tuberifera</i> Bezzi, 1905, <i>Lampremis</i> .....   | 39.20 |
| <i>tucuna</i> Smith, 1962, <i>Hilarempis</i> .....  | 39.36 |
| <i>tupinamba</i> Smith, 1962, <i>Hilara</i> .....   | 39.37 |
| <i>tympanica</i> Bezzi, 1909, <i>Rhamphomyia</i> .....  | 39.26 |
| <i>typicus</i> Wheeler & Melander, 1901, <i>Hybos</i> .....   | 39.11 |
| <i>uncinatus</i> Melander, 1927, <i>Platypalpus</i> .....   | 39.8  |
| <i>ungulifera</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                                    | 39.4  |
| <i>uniseta</i> Smith, 1962, <i>Sphicosa</i> .....   | 39.19 |
| <i>univittata</i> Smith, 1962, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                                       | 39.5  |
| <i>upsilon</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                                       | 39.5  |
| <i>uruguayensis</i> Lynch Arribálzaga, 1878, <i>Empis</i> .....   | 39.25 |
| <i>valdiviana</i> (Philippi), 1865 ( <i>Drapetis</i> ), <i>Austrodromia</i> .....                                 | 39.5  |
| <i>valdiviana</i> Philippi, 1865, <i>Empis</i> .....  | 39.25 |
| <i>vanellus</i> (Schiner), 1868 ( <i>Hilara</i> ), <i>Hilarempis</i> .....  | 39.36 |
| <i>varasi</i> (Brèthes), 1916 ( <i>Haplomera</i> ), <i>Aplomera</i> .....   | 39.27 |
| <i>variabilis</i> Bigot, 1857, <i>Empis</i> .....   | 39.25 |
| <i>varians</i> (Bigot), 1889 ( <i>Empis</i> ), <i>Hilarempis</i> .....  | 39.36 |
| <i>variegata</i> Bezzi, 1905, <i>Apalocnemis</i> .....  | 39.29 |



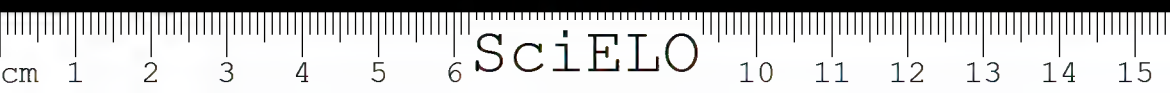
|   |       |
|---|-------|
| <i>varipes</i> Melander, 1927, <i>Micrempis</i> .....   | 39.5  |
| <i>variseta</i> Smith, 1962, <i>Macrostomus</i> .....   | 39.31 |
| <i>verae</i> Smith, 1962, <i>Rhamphomyia</i> .....  | 39.26 |
| <i>verrucicrus</i> Melander, 1927, <i>Euhybus</i> .....   | 39.13 |
| <i>versabilis</i> Collin, 1933, <i>Oreogeton</i> .....  | 39.18 |
| <i>versicolor</i> Collin, 1933, <i>Oreogeton</i> .....  | 39.18 |
| <i>verticalis</i> Collin, 1933, <i>Hilara</i> .....   | 39.37 |
| <i>vicina</i> Lynch Arribálzaga, 1878, <i>Empis</i> .....   | 39.25 |
| <i>villosipes</i> Bezzi, 1905, <i>Rhamphomyia</i> .....   | 39.26 |
| <i>villosula</i> (Bigot), 1889 ( <i>Empis</i> ), <i>Deuteronista</i> .....  | 39.33 |
| <i>violacea</i> (Loew), 1869 ( <i>Empis</i> ), <i>Lampremis</i> .....   | 39.20 |
| <i>viridis</i> (Coquillett), 1895 ( <i>Hilara</i> ), <i>Lampremis</i> .....                                       | 39.20 |
| <i>vitripennis</i> Curran, 1931, <i>Euhybus</i> .....   | 39.13 |
| <i>vittata</i> (Lynch Arribálzaga), 1878 ( <i>Hemerodromia</i> ), <i>Chelipoda</i> ..                             | 39.40 |
| <i>vittata</i> Melander, 1918, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                                       | 39.5  |
| <i>vittigerus</i> (Philippi), 1865 ( <i>Brachystoma</i> , subg. <i>Heterophlebus</i> ),<br><i>Oreogeton</i> ..... | 39.18 |
| <i>walkeri</i> (Bezzi), 1909 ( <i>Empis</i> ), <i>Hilarempis</i> .....  | 39.36 |
| <i>walkeri</i> Smith, 1962, <i>Syneches</i> .....   | 39.11 |
| <i>wiedemanni</i> Smith, 1962, <i>Macrostomus</i> .....   | 39.31 |
| <i>w-maculatus</i> (Smith), 1962 ( <i>Tachydromia</i> ), <i>Platypalpus</i> .....                                 | 39.8  |
| <i>Xanthempis</i> Bezzi, 1909 (subg. of <i>Empis</i> ) .....  | 39.21 |
| <i>xanthocera</i> Bezzi, 1905, <i>Hilarempis</i> .....  | 39.36 |
| <i>xanthogyna</i> Collin, 1933, <i>Apalocnemis</i> .....  | 39.29 |
| <i>xanthopoda</i> (Williston), 1896 ( <i>Drapetis</i> ), <i>Drapetis</i> ( <i>Crossopalpus</i> )                  | 39.3  |
| <i>xanthopodus</i> Melander, 1927, <i>Hybos</i> .....   | 39.11 |
| <i>xanthopodus</i> Williston, 1896, <i>Drapetis</i> ( <i>Elaphropeza</i> ) .....                                  | 39.4  |
| <i>xochitl</i> Wheeler & Melander, 1901, <i>Empis</i> .....   | 39.25 |
| <i>yucatanus</i> (Wheeler & Melander), 1901 ( <i>Hybos</i> ), <i>Euhybus</i> .....                                | 39.13 |
| <i>zonalis</i> Curran, 1932, <i>Drapetis</i> .....  | 39.2  |



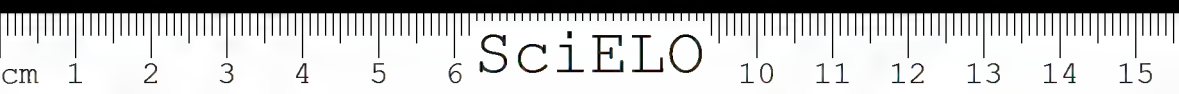




SciELO



SciELO



SciELO

MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(Formerly Departamento de Zoologia, Secretaria da Agricultura,  
São Paulo)A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

40

## FAMILY DOLICHOPODIDAE

(DOLICHOPIDAE)

HAROLD ROBINSON

*Department of Botany, Smithsonian Institution, Washington, D. C.*

Members of the family Dolichopodidae occur in nearly all environments, but most species are restricted to specialized habitats near water or in moist places. The adults are predaceous and are found on foliage, tree trunks, or damp earth, usually along streams or lakes, or in swamps. The males of some species, especially those of the genus *Dolichopus*, have characteristic mating dances. Most dolichopodid larvae are predaceous, and are either in decaying vegetation, under bark of trees, or aquatic. The larvae of *Thrypticus* are apparently phytophagous stem miners. Dolichopodids usually pupate in a cocoon made by the larva from available material such as sand, mud, or bits of wood.

Knowledge of the neotropical Dolichopodidae is based primarily on the groups in which species are larger and collectable by standard techniques. This is particularly so in the case of the Sciapodinae of which over 250 described species are listed. More critical collecting of smaller and more specialized types, such as the genus *Enlinia*, will undoubtedly greatly alter present concepts of the numbers and diversity of species in the family. When smaller species have been collected, they have usually been subjected to totally artificial generic and specific concepts. On the basis of descriptions alone, I have questioned here the generic status of many such species, and there are two, *Enlinia edwardsae* and *Micromorphus micidus*, which if described accurately may represent undescribed genera.

The geographic ranges given are based on literature and personal observations. Many species have been reported from a wide range of localities. In some cases, *Chrysosoma comatum*, *Chrysotus picticornis*, *C. barbatus*, and *Condylostylus caudatus*, this is partially the result of too broad a species concept. Careful examination, however, indicates that some species, *Condylostylus mundus*, *Diaphorus sodalis*, *D. spectabilis*, *Hydrophorus praecox*, *Plagioneurus univittatus*, *Thrypticus abdominalis*, and *T. fraterculus*, do have the wide ranges attributed to them.

The most recent revision of the family for the entire area is that of Becker (1922). Many of the South American species are treated by Van Duzee (1930b). A number of the neotropical species are included in the

40.1





synopsis of the family in the Southeastern United States (Robinson, 1964a). Immature stages are rather poorly known, but are most completely treated by Dyte (1967) and Wirth & Stone (1956).

The following subfamily arrangement is revised according to an unpublished version based on the author's concepts of relationships.

I wish to acknowledge both George C. Steyskal and Curtis W. Sabrosky for their many helpful suggestions during the preparation of the manuscript.

## Subfamily SCIAPODINAE

(*Psilopodinae*, *Chrysosomatinae*, *Agonosomatinae*)

### Genus CHRYSOSOMA Guérin-Méneville

CHRYSOSOMA Guérin-Méneville, 1831: pl. 20, figs. 5-6. Type-species, *maculipenne* Guérin-Méneville (pres. des.).

The genus is interpreted here to contain all species previously placed in *Condylostylus* which have an arista as long as the head and thorax combined. The arista is often ornamented at the tip. Ref. — Parent, 1954 (key).

BARBIPES (Van Duzee), 1934b:367, pl. 1, figs. 2-4 (*Condylostylus*). Type-locality: Guyana, Kartabo. Distr. — Guyana.

COMATUM (Loew), 1861c:89 (*Psilopus*). Type-locality: U.S.A., "Middle States". Distr. — U.S.A. (Kansas, Iowa, New Jersey, s. to Florida), Panama, Venezuela, Brazil. N. comb.

CRINITUM (Aldrich), 1904:283 (*Psilopodinus*). Type-locality: U.S.A., Kansas, Florida. Distr. — U.S.A. (eastern states), Ecuador. N. comb.

*albiapicatus* Parent, 1929b:206, figs. 58-59 (*Condylostylus*). Type-locality: U.S.A., Georgia. Reported-Ecuador.

EXSUL (Parent), 1932c:240, figs. 20-21 (*Sciopus*). Type-locality and distr.: "unknown".

FORMOSUM Parent, 1934a:281, pl. 72, figs. 7-8. Type-locality and distr.: "unknown".

INOPINATUM Parent, 1933b:163, fig. 1. Type-locality: Costa Rica, "Farm Hamburg, am Reventason". Distr. — Costa Rica.

LATIAPICATUM Van Duzee, 1933b:67, pl. 4, figs. 3-6. Type-locality: Mexico, Jalisco, Puerto Vallarta. Distr. — Mexico.

LORIFERUM Parent, 1934b:116, figs. 9-10. Type-locality: Colombia, Bogotá. Distr. — Colombia.

*loripes*, error.

MIRECILIATUM (Parent), 1928:177, figs. 40-45 (*Condylostylus*). Type-locality: Costa Rica, plains of Limón, Las Mercedes. Distr. — Costa Rica.

NOBILISSIMUM (Aldrich), 1901:360, pl. 6, fig. 23 (*Psilopus*). Type-locality: Mexico, Guerrero; Morelos; Veracruz; Tabasco; Yucatán. Distr. — Mexico. N. comb.

PERPLEXUM Parent, 1933b:164, figs. 2-3. Type-locality: Guyana, Essequibo River, Moraballi Creek; Kartabo. Distr. — Guyana.

- SCHMIDT Parent, 1954:222, fig. 2. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- SEMICOMATUM (Van Duzee), 1929a:4, pl. 1, figs. 5-6 (*Psilopus*). Type-locality: Guatemala, La Providencia; Guyana, N. Y. Zoological Society Tropical Research Station. Distr. — U.S.A. (Texas), Guatemala, Guyana. N. COMB.
- VILLOSIPES (Parent), 1933b:185, figs. 33-36 (*Condyllostylus*). Type-locality: Guyana, Kartabo. Distr. — Guyana. N. COMB.

### Genus CONDYLOSTYLUS Bigot

- CONDYLOSTYLUS Bigot, 1859:215, 223. Type-species, *Psilopus bituberculatus* Macquart (mon.).
- Laxina Curran, 1934:230. Type-species, *Dolichopus patibulatus* Fabricius (orig. des.).

The genus is a weak segregate from *Chrysosoma*, and as described, the arista of the type species is ornate, though not as in known species of *Chrysosoma*. The length of the arista in the type species has not been indicated with certainty. The genus seems to be the predominant element of the family in the open tropical lowlands of America.

Ref. — Aldrich, 1904 (key); Parent, 1929a (key); Van Duzee, 1931b (key).

- ACCEPTUS Parent, 1933c:4, figs. 7-8. Type-locality: Cayenne (= French Guiana). Distr. — French Guiana.
- ALATUS Becker, 1922:270. Type-locality: Peru, Vilcanota; Paraguay. Distr. — Peru, Paraguay.
- ALBICILIATUS (Van Duzee), 1927b:9 (*Psilopus*). Type-locality: Virgin Islands, St. Thomas. Distr. — Virgin Islands, Puerto Rico, Mona I., Jamaica.
- ALBIHIRTUS Van Duzee, 1929b:38. Type-locality: Jamaica, near Troy. Distr. — Jamaica.
- AMORIS (Walker), 1849:647 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- ANCEPS (Wiedemann), 1830:228 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil. See discussion under *Condyllostylus smaragdulus*.
- ARGENTATUS (Aldrich), 1901:361 (*Psilopus*). Type-locality: Mexico, Guerrero and Tabasco. Distr. — Mexico, Brazil, Bolivia.
- ARGENTIFER Parent, 1929b:208, figs. 60-61. Type-locality: Brazil, Amazonas, Tefé. Distr. — Brazil.
- ARGENTIPES Parent, 1929b:209, figs. 62-63. Type-locality: Brazil, Amazon. Distr. — Brazil.
- ARMIPES (Bigot), 1890:284 (*Psilopus*). Type-locality: Brazil, Bahia. Distr. — Brazil, Panama, Honduras.
- goetghebuerei* Parent, 1929b:222, figs. 84-85. Type-locality: "Panama".
- ASTEQUINUS (Bigot), 1888c:xxx (*Psilopodinus*). Type-locality: "Mexico". Distr. — Mexico.
- ATRICAUDA (Aldrich), 1901:357 (*Psilopus*). Type-locality: Mexico, Teapa. Distr. — Mexico, Guatemala.
- angustatus* Van Duzee, 1929a:9, pl. 1, fig. 17 (*Psilopus*) (nec Enderlein, 1912). Type-locality: Guatemala, Quirigua. N. SYN.

- ATROLAMELLATUS (Aldrich), 1901:359 (*Psilopus*). Type-locality: Mexico, Teapa. Distr. — Mexico, Bolivia.
- ATROX Becker, 1922:273. Type-locality: Peru, Callanga. Distr. — Peru.
- BARBATULUS Becker, 1922:273. Type-locality: "Mexico". Distr. — Mexico.
- BARBATUS (Aldrich), 1901:359 (*Psilopus*). Type-locality: Mexico, Guerrero; Brazil, Rio de Janeiro. Distr. — Mexico, Brazil.
- BARBITARSUS Parent, 1928:179, figs. 46-49. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- EASILARIS (Wiedemann), 1830:215 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil, Peru.
- BELLULUS (Aldrich), 1896:343 (*Psilopus*). Type-locality: St. Vincent I. Distr. — Mexico, West Indies, Guyana, Brazil.
- BICOLORIPES (Van Duzee), 1929a:7, pl. 1, fig. 12 (*Psilopus*). Type-locality: Panama, Bella Vista. Distr. — Panama.
- BIFASCIATUS Parent, 1931:1, pl. 1, figs. 5-6. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.
- BIFIMBRIATUS (Aldrich), 1901:353 (*Psilopus*). Type-locality: Mexico, Teapa. Distr. — Mexico.
- BISETA Becker, 1922:335. Type-locality: "Colombia". Distr. — Colombia.
- BISETOSUS Parent, 1930a:12, fig. 9. Type-locality: Brazil, Pará, Belém. Distr. — Brazil, Guyana.
- BISINUATUS Van Duzee, 1931c:4, figs 1-2. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil.
- BITUBERCULATUS (Macquart), 1842:180, pl. 20, fig. 2 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- BREVICILIATUS Parent, 1929b:210, figs. 64-65. Type-locality: "Brazil". Distr. — Brazil.
- BREVLAMELLATUS Parent, 1929b:112, figs. 66-67. Type-locality: "Puerto Rico". Distr. — Puerto Rico.
- BREVIMANUS (Enderlein), 1912:400 (*Psilopus*). Type-locality: "Costa Rica". Distr. — Costa Rica.
- BREVIPEDIS Van Duzee, 1931c:2, figs. 17-18. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- BREVIS Becker, 1922:278. Type-locality: Costa Rica, Surubres. Distr. — Costa Rica.
- BREVISETA (Coquillett), 1902:140 (*Sciopus*). Type-locality: Mexico, Veracruz. Distr. — Mexico.
- CAESAR Becker, 1922:279. Type-locality: Bolivia, Mapiri; Peru: Chanchamayo, Ucayali, Meshagua. Distr. — Bolivia, Peru, Mexico.
- CAMPTOPUS Parent, 1928:180, figs. 50-52. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- var. DIVERSIFEMUR Parent, 1935:91. Type-locality: Mexico, west coast.
- CANCER Van Duzee, 1934b:366, pl. 1, fig. 1. Type-locality: Guyana, Georgetown. Distr. — Guyana.
- CAPITULATUS Parent, 1929b:113, figs. 68-70. Type-locality: Peru, Loreto, Pebas. Distr. — Peru.
- CAUDATUS (Wiedemann), 1830:224 (*Psilopus*). Type-locality: U.S.A., Georgia. Distr. — U.S.A. (California to New England s. to Florida), Canada (Quebec),? Central America,? West Indies,? South Ame-

rica. Tropical records are likely to be *C. graenicheri* Van Duzee or some other species.

**CHRYSOBRASI** (Walker), 1849:646 (*Psilopus*). Type-locality: "West Indies". Distr. — U.S.A. (North Carolina, Florida), Mexico, Central America, Panama, West Indies, Venezuela.

*grisoprasius*, error

**ciliipes** Aldrich, 1901:355, pl. 6, fig. 22 (*Psilopus*). Type-locality: Mexico: Guerrero, Morelos, Veracruz, Yucatán.

**CILIATUS** Parent, 1929b:214, figs. 71-73. Type-locality: "Venezuela". Distr. — Venezuela, Guyana.

**CILITARSIS** (Wulp), 1888:369 (*Psilopus*). Type-locality: Argentina, Córdoba. Distr. — Argentina.

**CILITIBIA** Parent, 1939:140, fig. 2. Type-locality: Honduras, Manatee. Distr. — Honduras.

**CINCTIVENTRIS** Van Duzee, 1934b:371, fig. 7. Type-locality: Colombia, Vista Nieve, San Lorenzo Mts. Distr. — Colombia.

**CLATHRATUS** (Macquart), 1842:181, pl. 21, fig. 2 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.

**CLAVATUS** (Van Duzee), 1929a:15, pl. 1, figs. 24-26 (*Psilopus*). Type-locality: Panama, Ancon. Distr. — Panama, U.S.A. (?Massachusetts).

**CLAVIPES** (Aldrich), 1901:363 (*Psilopus*). Type-locality: Mexico, Guerrero. Distr. — Mexico, Guatemala, Panama.

**CLAVIPILUS** Parent, 1929b:216, figs. 74-76. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.

**CLUNALIS** (Coquillett), 1902:141 (*Sciopus*). Type-locality: Mexico, Veracruz. Distr. — Mexico, Panama.

*nitidicanda* Van Duzee, 1929a:12, pl. 1, figs. 21-22, 29 (*Psilopus*). Type-locality: Panama, Barro Colorado I.

**COCHLEARIS** Becker, 1922:285, fig. 109. Type-locality: Brazil, Rio de Janeiro, Teresópolis, and São Paulo; Paraguay. Distr. — Brazil, Paraguay.

**COMES** Parent, 1933b:166, figs. 4-5. Type-locality: Venezuela, Porto Cabello. Distr. — Venezuela.

**COMPLETUS** Becker, 1922:287. Type-locality: Brazil, Rio de Janeiro, and São Paulo. Distr. — Brazil.

**CONFLUENS** Becker, 1922:288. Type-locality: Brazil, Santa Catarina. Distr. — Brazil.

**CORCULUM** (Walker), 1849:645 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.

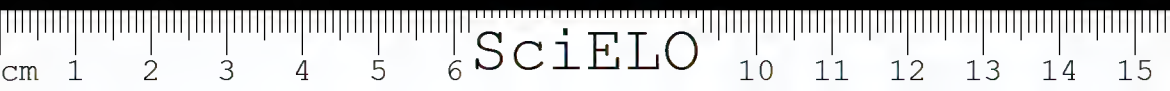
**CORNUTUS** Van Duzee, 1931b:167, pl. 1, fig. 2. Type-locality: Panama, Barro Colorado I. Distr. — Panama.

**COXALIS** (Aldrich), 1901:357 (*Psilopus*). Type-locality: Mexico, Misantla. Distr. — Mexico.

**CRINICAUDA** Parent, 1929b:217, figs. 77-78. Type-locality: Peru, Loreto, Pebas. Distr. — Peru.

**CTENOPUS** (Enderlein), 1912:401 (*Psilopus*). Type-locality: Ecuador, Baños. Distr. — Ecuador, Peru, Bolivia.

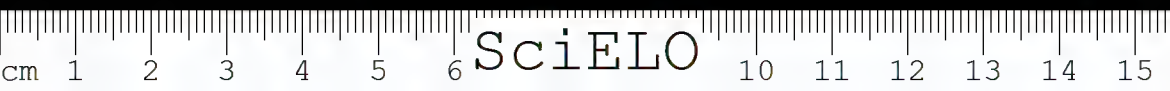
**CYLINDRICUS** (Van Duzee), 1929a:9, pl. 1, fig. 16 (*Psilopus*). Type-locality: Panama, Gamboa, C.Z. Distr. — Panama.





- DECORIPES Becker, 1922:290. Type-locality: Peru, Callanga. Distr. — Peru.
- DENTATICAUDA Van Duzee, 1933b:66, pl. 4, figs. 1-2. Type-locality: Ecuador, Galápagos. Distr. — Ecuador (Galápagos).
- DENTICULATUS Van Duzee, 1931c:1. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- DEPRESSUS (Aldrich), 1901:359 (*Psilopus*). Type-locality: Mexico, Tabasco. Distr. — Mexico.
- DETEGENDUS Parent, 1935:92, fig. 42. Type-locality: "Ecuador". Distr. — Ecuador.
- DIFFUSUS (Wiedemann), 1830:221 (*Psilopus*). Type-locality: Brazil, Rio de Janeiro (as Savannah, Georgia, error, see Loew 1864:234). Distr. — Brazil, Puerto Rico.
- chaetophorus* Schiner, 1868:214 (*Psilopus*). Type-locality: "Brazil".
- DIGITATUS (Van Duzee), 1914a:391 (*Sciapus*). Type-locality: "Cuba". Distr. — Cuba, Guatemala, Panama, Peru.
- DIMINUANS Becker, 1922:293. Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- DISTINCTUS Van Duzee, 1931c:8. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- DIVERSIPES Becker, 1922:294. Type-locality: "Brazil". Distr. — Brazil.
- DIVES Parent, 1929b:220, figs. 82-83. Type-locality: Brazil, Amazonas, Maués. Distr. — Brazil.
- ELECTUS (Walker), 1852:207 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- ELEGANTULUS Becker, 1922:294. Type-locality: Costa Rica, Surrubres. Distr. — Costa Rica.
- EQUESTRIS (Fabricius), 1775:782 (*Musca*). Type-locality: "Brazil". Distr. — Brazil, Surinam.
- dux* Wiedemann, 1830:216 (*Psilopus*). Type-locality: "Surinam".
- ERECTUS Becker, 1922:296, fig. 111a. Type-locality: Paraguay, Asunción; Argentina, Corrientes. U.S.A., ?New York. Distr. — Paraguay, Argentina, Uruguay, ? U.S.A.
- EXEMTUS (Walker), 1852:208 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- EXQUISITUS (Walker), 1852:210 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- FACETUS Parent, 1933b:169, figs. 10-12. Type-locality: Colombia, Gorgona I. Distr. — Colombia.
- FASCINATOR Parent, 1933b:171, figs. 13-14. Type-locality: Venezuela, near Caracas. Distr. — Venezuela.
- FASTUOSUS Parent, 1933b:172, figs. 15-17. Type-locality: "Guyana". Distr. — Guyana.
- FELIX Becker, 1922:298. Type-locality: Brazil, Rio Grande do Sul "Savannah(?)". Distr. — Brazil.
- FENESTRELLA Parent, 1933b:173, figs. 18-19. Type-locality: Guyana, Essequibo R. Distr. — Guyana.
- FILIFORMIS Becker, 1922:298, figs. 112-113. Type-locality: Peru, Meshagua, Urubamba River and mouth of River Pachitea; Bolivia, Mapiiri. Distr. — Peru, Bolivia, Guyana.

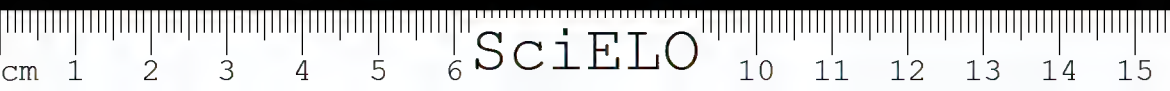
- FILIPENICILLATUS (Enderlein), 1912:403 (*Psilopus*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- FIMBRIATUS Parent, 1928:189, figs. 67-69. Type-locality: Surinam, Marowijne R. Distr. — Surinam.
- FLAGELLATUS Becker, 1922:300, figs. 114-115. Type-locality: Peru, Meshagua, Urubamba. Distr. — Peru, Brazil.
- FLAGELLIPODEX Becker, 1922:301, fig. 116. Type-locality: "Paraguay". Distr. — Paraguay, Brazil.
- FLAVICOXA (Aldrich), 1901:363 (*Psilopus*). Type-locality: Mexico, Veracruz, Tabasco. Distr. — Mexico.
- FLAVILAMELLATUS Becker, 1922:303. Type-locality: Brazil, Bahia. Distr. — Brazil.
- FLAVIMANUS (Macquart), 1842:182 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- FLAVIZONATUS Parent, 1954:221, fig. 1. Type-locality: Colombia, Muzo, Dept. Boyaca. Distr. — Colombia.
- FLORIDUS Parent, 1939:142, figs. 3-4. Type-locality: Costa Rica, Surrubres. Distr. — Costa Rica.
- FORCIPATUS (Aldrich), 1901:362 (*Psilopus*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico, Guatemala, Panama.
- FRATERCULUS (Enderlein), 1912:405 (*Psilopus*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- FURCILLATUS Parent, 1928:176, figs. 38-39. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- FUSCIPENNIS Van Duzee, 1934b:369, pl. 1, fig. 5. Type-locality: Guyana, Kartabo. Distr. — Guyana.
- GENUALIS (Aldrich), 1901:358 (*Psilopus*). Type-locality: Mexico, Guerrero. Distr. — Mexico.
- GORGONENSIS Parent, 1933b:175, fig. 21. Type-locality: Colombia, Gorgona I. Distr. — Colombia.
- GRACILIS (Aldrich), 1904:280, 282 (*Psilopodinus*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil.
- GRAENICHERI (Van Duzee), 1927a:73, figs. 1-2 (*Psilopus*). Type-locality: U.S.A., Florida. Distr. — U.S.A. (Florida), West Indies, Mexico to Colombia.
- GUTTULA (Wiedemann), 1830:222 (*Psilopus*). Type-locality: "Brazil". (as Savannah, Georgia, error, see Loew 1864:237). Distr. — Brazil, Guyana.
- GUYANENSIS (Macquart), 1842:178 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil. Described from female.
- HAERETICUS (Walker), 1860:287 (*Psilopus*). Type-locality: "Mexico". Distr. — Mexico. Described from female.
- HAMIFORMIS Becker, 1922:306, fig. 117. Type-locality: Paraguay, S. Bernardino. Distr. — Paraguay.
- HIRSUTUS Becker, 1922:307. Type-locality: "Brazil". Distr. — Brazil.
- HIRTIPES (Aldrich), 1901:361 (*Psilopus*). Type-locality: Mexico, Guerrero. Distr. — Mexico.



- HIRTULUS (Bigot), 1888c:xxix (*Psilopodinus*). Type-locality: "Haiti". Distr. — Haiti.
- IGNOBILIS Becker, 1922:308. Type-locality: Paraguay, Asunción. Distr. — Paraguay, Surinam.
- IGNORATUS Becker, 1922:309. Type-locality: "Costa Rica". Distr. — Costa Rica.
- IGNOTUS Becker, 1922:309, fig. 118. Type-locality: Brazil, Rio de Janeiro, Teresópolis, and São Paulo. Distr. — Brazil.
- IMPATIENS Becker, 1922:310. Type-locality: "Venezuela". Distr. — Venezuela, Colombia.
- IMPERATOR (Aldrich), 1904:281, 283 (*Psilopodinus*). Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil, Bolivia, Peru, Ecuador.
- IMPERIALIS (Fabricius), 1805:267 (*Dolichopus*). Type-locality: "Brazil". Distr. — Brazil.
- INCISURALIS (Macquart), 1846:248, pl. 20, fig. 6 (*Psilopus*). Type-locality: Mexico, Yucatán. Distr. — Mexico.
- INORNATUS (Aldrich), 1901:356 (*Psilopus*). Type-locality: Mexico, Guerrero, Morelos. Distr. — Mexico, U.S.A. (Arizona).
- INSIGNATUS Parent, 1929b:223, figs. 86-87. Type-locality: "Venezuela". Distr. — Venezuela.
- INSULARIS (Aldrich), 1896:344 (*Psilopus*). Type-locality: St. Vincent I. Distr. — St. Vincent I.
- INTERCEPTUS (Aldrich), 1901:363 (*Psilopus*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico.
- JUCUNDUS (Loew), 1861c:87 (*Psilopus*). Type-locality: "Cuba". Distr. — U.S.A. (Massachusetts, Pennsylvania), West Indies,? Brazil.
- LAETUS Becker, 1922:315. Type-locality: Peru, Bolivia. Distr. — Peru, Bolivia, Brazil, Venezuela.
- propinquus* Parent, 1929b:229, figs. 97-98. Type-locality: "Venezuela".
- crassitarsis* Van Duzee, 1931c:3, fig. 16. Type-locality: Brazil, Rio de Janeiro.
- LATIMANUS Van Duzee, 1931c:5, figs. 3-5. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- LAVATUS Parent, 1930a:10, figs. 6-7. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil, Honduras.
- LEPIDOPUS Frey, 1928:22, fig. 1. Type-locality: Peru, Iquitos. Distr. — Peru. Very close to *C. patellitarsis* Becker.
- LEPIDUS (Walker), 1852:207 (*Psilopus*). Type-locality: "Mexico". Distr. — Mexico, Venezuela.
- LEPRIEURI (Macquart), 1842:179, pl. 20, fig. 5 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- LIBIDINOSUS Parent, 1933b:177, figs. 22-23. Type-locality: Costa Rica, Golfo Dulce. Distr. — Costa Rica.
- LONGIPENNIS (Van Duzee), 1929a:8, pl. 1, figs. 13-15 (*Psilopus*). Type-locality: Panama, Barro Colorado I.; Ancon. Distr. — Panama.
- LONGIPILUS Parent, 1929b:224, figs. 88-89. Type-locality: "Panama". Distr. — Panama.



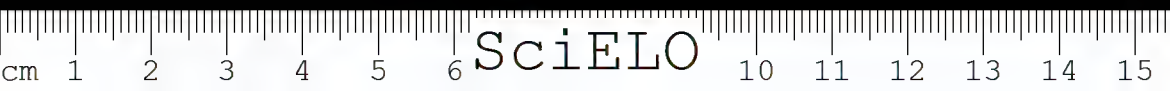
- LONGISETA (Coquillett), 1902:141 (*Sciopus*). Type-locality: Mexico, Veracruz. Distr. — Mexico.
- LUNATOR Curran, 1925: 3, fig. 2. Type-locality: Guyana, Kaieteur. Distr. — Guyana.
- LUTEICINCTUS Parent, 1930a:11, fig. 8. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil.
- LUTZI Freitas & Lopes, 1941:27, figs. 1-24. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- MELAMPUS (Loew), 1862:215 (*Psilopus*). Type-locality: "Mexico". Distr. — U.S.A. (Nevada to Colorado s. to Mexico), Mexico.
- MENSOR (Van Duzee), 1929a:6, pl. 1, figs. 8-11 (*Psilopus*). Type-locality: Panama, Bella Vista. Distr. — Panama.
- MIRIPENNIS Parent, 1931:2, pl. 1, fig. 7. Type-locality: Peru, Meshagua, Urubamba. Distr. — Peru.
- MIRIPES Parent, 1933b:178, figs. 24-25. Type-locality: Guyana, Essequibo R. Distr. — Guyana.
- MIRUS Parent, 1931:4, pl. 1, figs. 8-9. Type-locality: Peru, Chanchamayo. Distr. — Peru.
- MONILVENTRIS Parent, 1934:119, figs. 15-16. Type-locality: "Ecuador". Distr. — Ecuador.
- MUNDUS (Wiedemann), 1830:227 (*Psilopus*). Type-locality: U.S.A., Georgia. Distr. — U.S.A. (North Carolina to Florida), West Indies, Brazil.
- ciliatus* Loew, 1861c:88 (*Psilopus*). Type-locality: U.S.A., Florida.
- NIGRIPES (Macquart), 1842:181 (*Psilopus*). Type-locality: "Chile". Distr. — Chile.
- NIGRITIBIA Van Duzee, 1932b:183, fig. 1. Type-locality: "Cuba". Distr. — Cuba.
- NUBECULUS Becker, 1922:320, figs. 123-124. Type-locality: Colombia, Aracabaca. Distr. — Colombia, Venezuela.
- NUDIPES Becker, 1922:321. Type-locality: Surinam, Paramaribo; Peru, Callanga. Distr. — Surinam, Guyana, Peru.
- OCCIDENTALIS (Bigot), 1888c:xxix (*Psilopodinus*). Type-locality: U.S.A., California. Distr. — U.S.A. (Washington, Idaho, California), Canada (B.C.). Parent (1932b) in his review of the Bigot types, indicates that the original material of *Psilopodinus occidentalis* is mixed, 1 ♂ and 1 ♀ from California being the same as *C. pilicornis* (Aldrich), and 1 ♂ from Mexico being the same as *C. barbatus* (Aldrich). I select the California material as lectotypes.
- pilicornis* Aldrich, 1904:282 (*Psilopodinus*). Type-locality: U.S.A., Washington; Idaho; California.
- OCELLATUS Parent, 1930a:8, figs. 4-5. Type-locality: Brazil, Pará, Belém. Distr. — Brazil.
- OEDIPUS Becker, 1922:322. Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil.
- ORNATICAUDA Van Duzee, 1931c:9, figs. 7-8. Type-locality: Brazil, Rio de Janeiro; and Bolivia, Santa Cruz, Piedra Blanca. Distr. — Brazil, Bolivia.
- ORNATUS Parent, 1931:5, pl. 1, figs. 10-11. Type-locality: Peru, Paso de Lares (as "Laristal"). Distr. — Peru.





- PAMPOECILUS (Bigot), 1888c:xxix (*Psilopodinus*). Type-locality: "Haiti". Distr. — Haiti.
- PANAMENSIS (Van Duzee), 1929a:12, pl. 1, fig. 20 (*Psilopus*). Type-locality: Panama, Bella Vista. Distr. — Panama.
- PATELLITARSIS Becker, 1922:322, figs. 125-129. Type-locality: Bolivia, Mapiri; Peru, Meshagua, Urubamba; Callanga. Distr. — Bolivia, Peru.
- PATIBULATUS (Say), 1823:87 (*Dolichopus*). Type-locality: U.S.A., Florida. Distr. — Canada (Quebec, ? Alberta), U.S.A. (w. to Nebraska, s. to Florida), Mexico, Central America.
- inficitus* Walker, 1849:649 (*Psilopus*). Type-locality: "Mexico".
- PECTINATOR Parent, 1930a:6, figs. 1-3. Type-locality: Brazil, Pará, Belem. Distr. — Brazil, French Guiana.
- PECTINATUS Becker, 1922:325, fig. 130. Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia.
- PEDESTRIUS Becker, 1922:326, fig. 131. Type-locality: "Venezuela". Distr. — Venezuela, Panama.
- PENICILLIGER (Enderlein), 1912:398 (*Psilopus*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- PENNATUS Parent, 1929b:226, figs. 92-94. Type-locality: Brazil, Amazonas, Coari. Distr. — Brazil.
- PENNIFER (Aldrich), 1901:363 (*Psilopus*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico, Peru.
- PERACTUS (Walker), 1860:287 (*Psilopus*). Type-locality: "Mexico". Distr. — Mexico. Described from female.
- PERMODICUS (Walker), 1860:288 (*Psilopus*). Type-locality: "Mexico". Distr. — Mexico.
- PERSPICUUS Becker, 1922:328. Type-locality: "Brazil". Distr. — Brazil.
- PILIPES (Macquart), 1842:177, pl. 21, fig. 6 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- PILOSUS (Loew), 1861c:86 (*Psilopus*). Type-locality: "Cuba". Distr. — Cuba, Puerto Rico.
- PLUMITARSIS Parent, 1933b:181, figs. 27-29. Type-locality: Guyana, Esse-quiibo R. Distr. — Guyana.
- PLUTUS Parent, 1929b:228, figs. 95-96. Type-locality: Brazil, Amazonas, Coari. Distr. — Brazil.
- POLYCHROMUS (Bigot), 1890:289 (*Psilopodinus*). Type-locality: "Haiti". Distr. — Haiti.
- PORTORICENSIS (Macquart), 1834:450 (*Psilopus*). Type-locality: "Puerto Rico". Distr. — Puerto Rico, U.S.A. (Florida).
- POSTICATUS (Wiedemann), 1830:217 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil, Peru, Bolivia, Argentina.
- PRAESTANS (Aldrich), 1901:354 (*Psilopus*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico, Guatemala, Costa Rica, Guyana.
- PRESSITARSIS Parent, 1931:5, pl. 1, figs. 12-13. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru.
- PRODUCTIPES Parent, 1934b:121, figs. 17-18. Type-locality: Colombia, Bogotá. Distr. — Colombia.

- PRUINIFRONS Parent, 1929b:230, figs. 99-100. Type-locality: Brazil, Amazonas, Coari. Distr. — Brazil.
- PULCHER (Wiedemann), 1830:224 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- PULCHRIPIPES Becker, 1922:332. Type-locality: "Brazil". Distr. — Brazil.
- PULCHRITARSIS Van Duzee, 1931b:167, pl. 1, fig. 3. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- PUNCTUMALBUM Parent, 1929b:233, figs. 103-104. Type-locality: Brazil, Amazonas, Coari. Distr. — Brazil.
- PURPURATUS (Aldrich), 1901:358 (*Psilopus*). Type-locality: Mexico, Morelos, Guerrero. Distr. — Mexico.
- PURPUREUS (Aldrich), 1901:362 (*Psilopus*). Type-locality: Mexico, Guerrero, Tabasco, Veracruz. Distr. — Mexico, Panama.
- QUADRICOLOR (Walker), 1849:649 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- RADIANS (Macquart), 1834:450 (*Psilopus*). Type-locality: "North America". Distr. — U.S.A. (Florida), Cuba, Panama, Guyana, Brazil, Peru.
- RETROCLIATUS Parent, 1931:6, figs. 14-15. Type-locality: Paraguay, Hohenau. Distr. — Paraguay.
- REX Parent, 1929b:234, figs. 105-106. Type-locality: Brazil, Amazonas, Manaus. Distr. — Brazil.
- RUBROCAUDA Van Duzee, 1931c:13, fig. 14-15. Type-locality: Bolivia, Santa Cruz, Piedra Blanca. Distr. — Bolivia.
- SACCICAUDA Parent, 1934b:122, figs. 19-20. Type-locality: Paraguay, Villarrica. Distr. — Paraguay.
- SALTI (Van Duzee), 1929b:37 (*Psilopus*). Type-locality: Cuba, Trinidad Mts. Distr. — Cuba.
- SCHNUSEI Becker, 1922:333, fig. 133. Type-locality: Peru, Pichís, Madre de Dios, Paso de Lares; Bolivia, Mapiri; Paraguay, Asunción. Distr. — Peru, Bolivia, Paraguay.
- SEMICLIATUS (Van Duzee), 1929a:11, pl. 1, figs. 18-19 (*Psilopus*). Type-locality: Guatemala, Antigua. Distr. — Guatemala.
- SEMINIGER Becker, 1922:335. Type-locality: Peru, Pichís, Meshagua, Urubamba; Bolivia, Mapiri. Distr. — Peru, Bolivia.
- SERENUS Becker, 1922:336. Type-locality: "Brazil"; Peru, Paso de Lares. Distr. — Brazil, Peru.
- SETITARSIS Van Duzee, 1931c:10, figs. 9, 13, 19. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- SEXSETOSUS Van Duzee, 1931d:1, fig. 1. Type-locality: Honduras, Tegucigalpa, La Ceiba. Distr. — Honduras, Trinidad.
- SIMILIS (Aldrich), 1901:359 (*Psilopus*). Type-locality: Mexico: Guerrero, Morelos, Tabasco, Veracruz, Yucatán; Brazil, Rio de Janeiro. Distr. — U.S.A. (Texas), Mexico, Colombia (Gorgona I.), Guyana, Brazil.
- SIMPLEX Becker, 1922:338. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru.



- SIMULANS** (Van Duzee), 1929a:16, pl. 1, figs. 27-28 (*Psilopus*). Type-locality: Panama, Barro Colorado I. Distr. — Panama, Colombia, Ecuador.
- SINGULARIS** Becker, 1922:338. Type-locality: "Venezuela". Distr. — Venezuela.
- SINUATUS** (Macquart), 1842:180 (*Psilopus*). Type-locality: Brazil, Rio Grande. Distr. — Brazil.
- SIPHIO** (Say), 1823:84 (*Dolichopus*). Type-locality: "U.S.A." Distr. — SE Canada, U.S.A. (s. to Texas and Florida), ? Mexico, ? Cuba.
- SMARAGDULUS** (Wiedemann), 1830:225 (*Psilopus*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay. Both this and *C. anceps* (Wiedemann) are described from females and are unidentifiable. They belong to the *C. caudatus* group and have been in the synonymy of that species, but as indicated by Van Duzee (1927a), *C. caudatus* probably does not occur in South America.
- SOLIDUS** (Walker), 1860:287 (*Psilopus*). Type-locality: "Mexico". Distr. — Mexico. Described from female.
- SQUAMIFER** Becker, 1922:340, figs. 134-135. Type-locality: Colombia, Aracataca; Peru, Urubamba. Distr. — Colombia, Peru, Guyana.
- STIGMA** (Fabricius), 1805:268 (*Dolichopus*). Type-locality: "Amer. merid.". Distr. — South America.
- guttipennis* Rondani, 1848:87 (*Psilopus*). Type-locality: "Amer. merid.".
- testaceipes* Rondani, 1848:88 (*Psilopus*). Type-locality: "Amer. merid.".
- testipes*, error.
- SUAVIUM** (Walker), 1849:648 (*Psilopus*). Type-locality: "Jamaica". Distr. — Jamaica.
- SUBCORDATUS** Becker, 1922:343. Type-locality: "Brazil". Distr. — Brazil.
- SUMPTUOSUS** Parent, 1929b:237, figs. 109-110. Type-locality: Brazil, Amazonas, Coari. Distr. — Brazil.
- SUPERBUS** (Wiedemann), 1830:223 (*Psilopus*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay.
- SUPERFLUUS** (Schiner), 1868:210 (*Psilopus*). Type-locality: "Süd Amerika". Distr. — South America, Peru, Brazil.
- SURINAMENSIS** Parent, 1928:188, figs. 65-66. Type-locality: Surinam, upper Pará. Distr. — Surinam.
- TARSATUS** Van Duzee, 1932c:5, fig. 5. Type-locality: Jamaica, Claremont. Distr. — Jamaica.
- TENUIMANUS** Van Duzee, 1931d:2, fig. 2. Type-locality: Honduras, Tegucigalpa, La Ceiba. Distr. — Honduras.
- TENUPES** Becker, 1922:346. Type-locality: Peru, Callanga. Distr. — Peru.
- TENUIS** (Van Duzee), 1933c:151 (*Sciapus*; nom. nov. for *tenuitarsis* Van Duzee). Type-locality: Bolivia, Santa Cruz, Piedra Blanca. Distr. — Bolivia. N. COMB.
- tenuitarsis* Van Duzee, 1931c:12, fig. 10 (nec Meijere, 1915). Type-locality: Bolivia, Santa Cruz, Piedra Blanca.
- TERCILIATUS** Parent, 1928:187, fig. 62-64. Type-locality: St. Vincent I. Distr. — St. Vincent I.

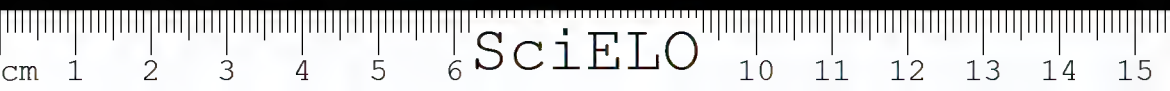
- TERMINALIS Becker, 1922:346. Type-locality: Argentina, Tucumán. Distr. — Argentina.
- TIBIALIS (Wiedemann), 1830:222 (*Psilopus*). Type-locality: Antigua I. Distr. — West Indies.
- TONSUS (Aldrich), 1901:364 (*Psilopus*). Type-locality: Mexico, Tabasco. Distr. — Mexico.
- TRICHOSOMA (Bigot), 1890:285 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.
- TRIMACULATUS Van Duzee, 1931c:13, figs. 11-12. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- TRISERIATUS (Aldrich), 1901:356 (*Psilopus*). Type-locality: Mexico, Morelos, Tabasco; Brazil, Rio de Janeiro. Distr. — Mexico, Brazil.
- TUMANTUMARI Curran, 1925: 1, fig. 1. Type-locality: Guyana, Tumatumari. Distr. — Guyana.
- UMBRINERVIS Parent, 1933b:184, fig. 32. Type-locality: "Jamaica". Distr. — Jamaica. Described from female.
- UNGUIPES Becker, 1922:348. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru.
- UNISERIATUS Becker, 1922:349, figs. 138-139. Type-locality: Peru, Chanchamayo; Bolivia, Mapi. Distr. — Peru, Bolivia.
- UNISETA Becker, 1922:350. Type-locality: unknown. Distr. — Costa Rica, Panama.
- VAGANS Becker, 1922:351. Type-locality: Costa Rica, Surrubres and Higuato, San Mateo. Distr. — Costa Rica.
- VARITIBIA Van Duzee, 1932c:6, fig. 6. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- VELIFORMIS Becker, 1922:351, figs. 140-141. Type-locality: Peru, mouth of R. Pachitea; Meshagua, Urubamba. Distr. — Peru.
- VIGLANS Becker, 1922:353. Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- VILLOSUS Parent, 1928:175, figs. 36-37. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- VIOLACEUS (Macquart), 1842:178, pl. 20, fig. 3 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.

#### Genus LEPTORHETHUM Aldrich

- LEPTORHETHUM Aldrich, 1893:50. Type-species, *angustum* Aldrich (mon.).  
Ref. — Aldrich, 1896 (description, illustration)
- ANUSTATUM Aldrich, 1893:50. Type-locality: St. Vincent I. Distr. — St. Vincent I.
- TENUIPES Van Duzee, 1931a:252, figs. 2-3. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.

#### Genus MEGISTOSTYLUS Bigot

- MEGISTOSTYLUS Bigot, 1859:215. Type-species *Psilopus crinicornis* Wiedemann (mon.) = *longicornis* (Fabricius).





*Megystostylus*, error.

*Megistotylus*, error.

Ref. — Parent, 1929b (key).

LONGICORNIS (Fabricius), 1775:783 (*Musca*). Type-locality: "Brazil". Distr. — West Indies, Brazil; Ceylon, Taiwan, Philippines, Indonesia.

LONGISETOSUS (Wulp), 1882:120, pl. 10, fig. 7 (*Psilopus*). Type-locality: "Brazil". Distr. — Brazil.

#### Genus MESORHAGA Schiner

MESORHAGA Schiner, 1868:217. Type-species, *tristis* Schiner (mon.).

*Aptorthus* Aldrich, 1893:48. Type-species, *albiciliatus* Aldrich (Coquillett, 1910:509). Ref. — Parent, 1929c (key).

ADUNCUS (Van Duzee), 1933a:1, fig. 52 (*Condylostylus*). Type-locality: Guatemala, Moca. Distr. — Guatemala. N. COMB.

ALBICILIATA (Aldrich), 1893:48 (*Aptorthus*). Type-locality: U.S.A., New Jersey. Distr. — U.S.A. (New Jersey, North Carolina, Georgia), Puerto Rico.

FUNEBRIS Parent, 1929c:16, figs. 21-22. Type-locality: Peru, Iquitos. Distr. — Peru.

JUCUNDA Becker, 1922:377, fig. 145. Type-locality: Paraguay, Asunción. Distr. — Paraguay, U.S.A. (? Georgia).

LACRYMANS Parent, 1928:182, figs. 53-54. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.

LAETA Becker, 1922:378, fig. 146. Type-locality: "Paraguay". Distr. — Paraguay.

ORNATIPES Van Duzee, 1932b:184, fig. 2. Type-locality: "Cuba". Distr. — Cuba.

TRISTIS Schiner, 1868:217. Type-locality: "Colombia". Distr. — Colombia.

#### Genus SCIAPUS Zeller

*Psilopus* Meigen, 1824:35 (preocc. Poli, 1795). Type-species, *Dolichopus platypterus* Fabricius (Westwood, 1840:134).

SCIAPUS Zeller, 1842:831 (nom. nov. for *Psilopus* Meigen). Type-species, *Dolichopus platypterus* Fabricius (aut.)

*Sciopus*, error.

*Psilopodinus* Bigot, 1888b:xxiv (also 1888c:xxix). Type-species, *Dolichopus platypterus* Fabricius (orig. des.).

*Gnamptopsilopus* Aldrich, 1893:48. Type-species, *Psilopus scintillans* Loew (Coquillett, 1910:547).

*Agonosoma*, authors, not Guérin-Méneville.

Ref. — Van Duzee, 1915b; Steyskal, 1966 (keys).

ALBIFACIES Parent, 1931:6, pl. 1, fig. 16. Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia.

ANGELICUS Parent, 1930b:109, figs. 34-35. Type-locality: "Haiti". Distr. — Haiti.

- ANGUSTIFRONS Parent, 1929b:241, figs. 115-117. Type-locality: Brazil, Amazon. Distr. — Brazil.
- ANTENNATUS Becker, 1922:363. Type-locality: "Peru". Distr. — Peru.
- ARMIGER Van Duzee, 1931b:169, pl. 1, figs. 4-6. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- BELLIMANUS (Van Duzee), 1927b:10 (*Psilopus*). Type-locality: Dominican Republic. Distr. — Hispaniola. N. COMB.
- BILOBUS (Van Duzee), 1929a:3, pl. 1, figs. 1-3 (*Psilopus*). Type-locality: Panama, Fort Davis. Distr. — Panama.
- CAPILLIMANUS (Enderlein), 1912:402, figs. B-D (*Psilopus*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- CASTUS (Loew), 1866a:180 (*Psilopus*). Type-locality: "Cuba". Distr. — Cuba.
- CILICOSTATUS (Van Duzee), 1927b:8 (*Psilopus*). Type-locality: Jamaica, Clarendon. Distr. — Jamaica. N. COMB.
- CILIPENNIS (Aldrich), 1901:366, pl. 6, fig. 24 (*Gnamptopsilopus*). Type-locality: Mexico, Guerrero. Distr. — Mexico, Costa Rica.
- innoxius Parent, 1934b:123, figs. 21-22. Type-locality: Costa Rica, near Cartago.
- DIGITATUS Van Duzee, 1914a:391. Type-locality: "Cuba". Distr. — Cuba.
- DIMIDIATUS (Loew), 1862:216 (*Psilopus*). Type-locality: "Mexico". Distr. — U.S.A. (Arizona), Mexico, Puerto Rico, Venezuela, Brazil.
- DORSALIS (Loew), 1866a:180 (*Psilopus*). Type-locality: "Cuba". Distr. — U.S.A. (Missouri to Maryland s. to Florida), West Indies.
- FLAVIANNULATUS (Van Duzee), 1929a:14, pl. 1, fig. 23 (*Psilopus*). Type-locality: Panama, Bella Vista; Guatemala, Obispo, La Providencia. Distr. — Guatemala, Panama.
- FLAVICORNIS (Aldrich), 1896:342 (*Gnamptopsilopus*). Type-locality: St. Vincent I. Distr. — St. Vincent I., Grenada I.
- FLAVIDUS (Aldrich), 1896:341, pl. 12, fig. 109 (*Gnamptopsilopus*). Type-locality: St. Vincent I. Distr. — St. Vincent I., Grenada I.
- GILVIPES (Enderlein), 1912:404 (*Psilopus*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- GRATIOSUS Becker, 1922:366. Type-locality: "Brazil". Distr. — Brazil.
- INAEQUALIS (Van Duzee), 1927b:8 (*Psilopus*). Type-locality: Virgin Islands, St. Thomas. Distr. — Virgin Islands. N. COMB.
- INFUMATUS (Aldrich), 1901:365 (*Gnamptopsilopus*). Type-locality: Mexico, Guerrero. Distr. — U.S.A. (Arizona), Mexico.
- LATIFACIES (Van Duzee), 1934b:370, pl. 1, fig. 6 (*Condylostylus*). Type-locality: Guyana, Kartabo. Distr. — Guyana. N. COMB.
- LECTUS Becker, 1922:366. Type-locality: "America". Distr. — America.
- LONGIPES (Van Duzee), 1929a:3, pl. 1, fig. 4 (*Psilopus*). Type-locality: Panama, Bella Vista. Distr. — Panama.
- MACULA (Wiedemann), 1830:219 (*Psilopus*). Type-locality: West Indies, Crab I. (= Vieques). Distr. — West Indies.
- MEDIANUS (Becker), 1922:317, fig. 121 (*Condylostylus*). Type-locality: Peru, Callanga. Distr. — Peru. N. COMB.



- MEXICANUS** (Aldrich), 1901:365 (*Gnamptopsilopus*). Type-locality: Mexico, Veracruz, and Tabasco. Distr. — Mexico.
- NIGRIMANUS** Van Duzee, 1914a:392. Type-locality: Guatemala, Los Amates and Marales. Distr. — Guatemala.
- NODITARIS** Becker, 1922:368. Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil.
- NUBILLIPENNIS** (Van Duzee), 1927b:7 (*Psilopus*). Type-locality: Puerto Rico, Adjuntas. Distr. — Puerto Rico.
- PARVUS** Van Duzee, 1933c:151 (nom. nov. for *pectoralis* Van Duzee). Distr. — Panama. Type-locality: Panama, Barro Colorado, and Corozal.
- pectoralis* Van Duzee, 1931b:168 (nec *pectoralis* Meijere, 1913). Type-locality: Panama, Barro Colorado and Corozal.
- PLANIPES** (Van Duzee), 1929a:6, pl. 1, fig. 7 (*Psilopus*). Type-locality: Panama, Mount Hope. Distr. — Panama.
- PSITTACINUS** (Loew), 1861c:96 (*Psilopus*). Type-locality: U.S.A., Florida. Distr. — U.S.A. (New Jersey, Georgia, Florida), West Indies.
- SCINTILLANS** (Loew), 1861c:94 (*Psilopus*). Type-locality: U.S.A., "Middle States". Distr. — U.S.A. (Minnesota and Iowa to New Hampshire), Costa Rica, South America.
- angustatus* Enderlein, 1912:405 (*Psilopus*). Type-locality: Brazil, Santa Catarina.
- SPINIMANUS** (Van Duzee), 1927b:6 (*Psilopus*). Type-locality: Puerto Rico, Sanchez. Distr. — Puerto Rico. N. comb.
- STRIATICOLLIS** Becker, 1922:370, fig. 143. Type-locality: "Brazil". Distr. — Brazil.
- TENER** (Loew), 1862:217 (*Psilopus*). Type-locality: U.S.A., Pennsylvania. Distr. — Canada (Quebec), U.S.A. (Michigan and Maine to Florida), South America.
- UNICINCTUS** (Van Duzee), 1927b:6 (*Psilopus*). Type-locality: Haiti, Aux Cayes; Virgin Islands, St. John. Distr. — Haiti, Virgin Islands. N. comb.
- UNIFASCIATUS** (Say), 1823:85 (*Dolichopus*). Type-locality: U.S.A., Pennsylvania. Distr. — Canada (Ontario), U.S.A. (Michigan and Rhode Island s. to Louisiana and Florida), Dominica I.
- sayi* Wiedemann, 1830:219 (*Psilopus*; unjustified nom. nov. for *unifasciatus* Say). Type-locality: U.S.A., Pennsylvania.
- VARIEGATUS** (Loew), 1861c:95 (*Psilopus*). Type-locality: U.S.A., Florida. Distr. — U.S.A. (New Jersey, Georgia, Florida, Texas), Cuba, Central and South America.

## Subfamily NEURIGONINAE

### Genus ARGENTINIA Parent

**ARGENTINIA** Parent, 1931:17. Type-species, *annulitarsis* Parent (mon.)

The genus was originally described in the Medeterinae but is placed here because of its narrow pollinose face.

**ANNULITARSIS** Parent, 1931:17, pl. 3, figs. 65-68. Type-locality: Argentina, Corrientes. Distr. — Argentina.

### Genus COELINIUM Parent

COELINIUM Parent, 1939:148. Type-species, *bicolor* Parent (orig. des.).

The genus was originally placed in the Stolidosominae but is placed here because of the flattened posterior slope of the mesoscutum and the narrow pollinose face.

BICOLOR Parent, 1939:149, figs. 12-14. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.

UNICOLOR Parent, 1939:150, fig. 15. Type-locality: Argentina, Mendoza. Distr. — Argentina.

### Genus COELOGLUTUS Aldrich

COELOGLUTUS Aldrich, 1896:338. Type-species, *concavus* Aldrich (mon.).

The genus has been placed in the Medeterinae but is placed here because of its narrow pollinose face.

CONCAVUS Aldrich, 1896:338, pl. 11, fig. 105. Type-locality: St. Vincent I. Distr. — Puerto Rico, Dominica I., St. Vincent I.

SINUATA (Parent), 1928:159, figs. 11-12 (*Medetera*). Type-locality: Costa Rica, La Caja. Distr. — Guatemala, Costa Rica. N. COMB.

*bicoloripes* Van Duzee, 1933d:15, figs. 25-26. Type-locality: Guatemala, Guatemala, Moca and Santa Adelaide. N. SYN.

### Genus NEOTONNOIRIA Robinson, nom. nov.

*Tonnoiria* Parent, 1929b:184 (preocc. Malloch, 1929). Type-species, *angustifacies* Parent (mon.).

NEOTONNOIRIA Robinson, nom. nov. for *Tonnoiria* Parent. Type-species, *angustifacies* Parent (aut.).

For details regarding priority of *Tonnoiria* Malloch see Steyskal (1968).

ANGUSTIFACIES (Parent), 1929b:185, figs. 23-25 (*Tonnoiria*). Type-locality: Brazil, Amazonas, Itaituba. Distr. — Brazil. N. COMB.

### Genus NEURIGONA Rondani

NEURIGONA Rondani, 1856:142. Type-species, *Musca quadrifasciata* Fabricius (orig. des.).

*Saucropus* Loew, 1857a:41 (unjustified nom. nov. for *Neurigona* Rondani). Type-species, *Musca quadrifasciata* Fabricius (aut.).

*Dactylomyia* Aldrich, 1894:151. Type-species, *gracilipes* Aldrich (mon.) = *lateralis* (Say).

Ref. — Van Duzee, 1913b (revision); Van Duzee, 1930b (key).

AMERICANA Parent, 1934a:275, pl. 71, figs. 37-38. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.

BICOLOR Van Duzee, 1933d:9, figs. 19-20. Type-locality: Guatemala, Guatemala, Moca. Distr. — Guatemala.

BRASILIENSIS (Schiner), 1868:218 (*Saucropus*). Type-locality: "Brazil". Distr. — Brazil. Described from female.

CINEREICOLLIS (Wulp), 1888:370 (*Saucropus*). Type-locality: Argentina, Córdoba. Distr. — Argentina.



- CORUSCANS** Parent, 1928:161, figs. 16-17. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- DECORA** Aldrich, 1902:83. Type-locality: Grenada I., St. Vincent I. Distr. — Lesser Antilles.
- DERELICTA** Parent, 1928:162, fig. 18. Type-locality: Costa Rica, La Caja. Distr. — Guatemala, Costa Rica, Panama.
- banksi** Van Duzee, 1929a:30, pl. 2, fig. 42. Type-locality: Panama, Barro Colorado; Guatemala, La Providencia, Siquinala. N. SYN.
- GROSSICAUDA** Van Duzee, 1931c:24, fig. 28. Type-locality: "Guyana".
- LAMPROSTETHUS** (Philippi), 1865:776 (*Dolichopus*). Type-locality: Chile, Valdivia. Distr. — Chile.
- MACULIPENNIS** Van Duzee, 1929a:31, pl. 2, fig. 43. Type-locality: Panama, Paraiso. Distr. — Panama.
- MELINI** Frey, 1928:22. Type-locality: Peru, Roque, East Andes. Distr. — Peru.
- ORBICULARIS** Becker, 1922:162. Type-locality: Paraguay, S. Bernardino. Distr. — Paraguay.
- SIGNIFER** Aldrich, 1896:337. Type-locality: St. Vincent I. Distr. — Mexico (Veracruz), Nicaragua, Lesser Antilles, Bolivia.
- THORACICA** Van Duzee, 1931b:178. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- VRIDIS** Van Duzee, 1913b:43, pl. 1, fig. 15. Type-locality: U.S.A., New York; New Hampshire; Virginia. Distr. — U.S.A. (eastern), Costa Rica.

#### Genus NOTOBOTHRUS Parent

- NOTOBOTHRUS** Parent, 1931:19. Type-species, *longilamellatus* Parent (mon.).
- LONGILAMELLATUS** Parent, 1931:19, pl. 3, figs. 72-74. Type-locality: Peru, Urubamba R., Umuhuankiali. Distr. — Peru.

#### Subfamily MEDETERINAE

##### Genus MEDETERA Fischer von Waldheim

- MEDETERA** Fischer von Waldheim, 1819:7 and pl. Type-species, *carnivora* Fischer von Waldheim (mon.) = *diadema* (Linnaeus).

*Medeterus*, error or emend.

The adults of *Medetera* are usually found on tree trunks or other wooden objects. The larvae of some species feed on the immature stages of wood-boring beetles. I have seen some tropical species in close proximity to termite nests, and possibly there is some connection. Ref. — Van Duzee, 1929a, 1931b (keys); De Leon, 1935 (biol.).

- ABRUPTA** Van Duzee, 1919a:270. Type-locality: Guatemala, Pt. Barrios. Distr. — Guatemala.
- ALBITARSIS** Van Duzee, 1931b:184, fig. 22. Type-locality: Panama, Barro Colorado I.; France Field; Honduras, Tegucigalpa. Distr. — Panama, Honduras.

- ALTERA Parent, 1931:18, pl. 3, fig. 69. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- AMPLIMANUS Van Duzee, 1931b:182, pl. 1, fig. 19. Type-locality: Panama. Corozal. Distr. — Panama.
- ANUS Becker, 1922:130. Type-locality: "Paraguay". Distr. — Paraguay.
- BELLA Van Duzee, 1929a:34. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- DILATATA Becker, 1922:131, figs. 53-54. Type-locality: Peru, Pinipini, Meshagua, Urubamba; Bolivia, Mapiri, Sarampiuni. Distr. — Peru, Bolivia.
- EXCAVATA Becker, 1922:132, fig. 55. Type-locality: Bolivia, Mapiri, Sarampiuni; Peru, Ucayali, Meshagua.
- EXCIPIENS Becker, 1922:133. Type-locality: Paraguay, S. Bernardino; U.S.A., ? South Carolina. Distr. — Paraguay, ? U.S.A.
- EXIGUUS Aldrich, 1902:91. Type-locality: Grenada I. Distr. — Grenada I.
- FLABELLIFERA Becker, 1922:134, fig. 56. Type-locality: Peru, Meshagua, Urubamba. Distr. — Peru.
- FLAVICORNIS Becker, 1922:135. Type-locality: Peru, Ucayali, Unini. Distr. — Peru.
- FLAVIPES Van Duzee, 1919a:269. Type-locality: Guatemala, Los Amates. Distr. — Guatemala.
- FLAVISETA Van Duzee, 1929a:37. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- FLAVITARSIS Van Duzee, 1930b:74. Type-locality: Peru, Lima, Matucana. Distr. — Peru.
- JAMAICENSIS Curran, 1928:35. Type-locality: "Jamaica". Distr. — Jamaica.
- METALLICA Becker, 1922:135. Type-locality: Peru, Meshagua, Urubamba; mouth of R. Pachitea, Chanchamayo, Ucayali. Distr. — Peru.
- MINOR Becker, 1922:136, fig. 57. Type-locality: Paraguay, S. Bernardino. Distr. — Paraguay.
- NIGRIMANUS Van Duzee, 1931b:181, pl. 1, fig. 18. Type-locality: Panama' Barro Colorado I.; Corozal; France Field. Distr. — Panama.
- OCCIDENTALIS Schiner, 1868:222. Type-locality: "Venezuela" (as "Colombia"). Distr. — Venezuela.
- OVATA Van Duzee, 1931b:183, pl. 1, fig. 21. Type-locality: Panama, Corozal. Distr. — Panama.
- PALLIDICORNIS Van Duzee, 1929a:36, pl. 2, 51 Type-locality: Guatemala, Obispo, La Providencia. Distr. — Guatemala.
- PEDESTRIS Becker, 1922:137, fig. 58. Type-locality: Peru, Ucayali, Unini, mouth of R. Pachitea; Surinam, Paramaribo. Distr. — Colombia, Peru, Surinam.
- FLANIPES Van Duzee, 1919a:269. Type-locality: Guatemala, Los Amates. Distr. — Guatemala.
- PLEBEIA Parent, 1928:158, fig. 10. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- PLUMOSA Parent, 1931:18, pl. 3, fig. 70. Type-locality: Peru, mouth of R. Pachitea, Meshagua, Urubamba, Ucayali, Unini. Distr. — Peru.

- POLLINOSA Van Duzee, 1929a:34, pl. 2, figs. 47-48, 52. Type-locality: Panama, Barro Colorado. Distr. — Panama.
- SCAURA Van Duzee, 1929a:35, pl. 2, fig. 50. Type-locality: Guatemala, Obispo, La Providencia; Alta Vera Paz, Cobán. Distr. — Guatemala.
- SETOSA Parent, 1931:18. Type-locality: Peru, Pinipini. Distr. — Peru.
- SPINULATA Parent, 1931:19. Type-locality: Peru, Ucayali, Unini. Distr. — Peru.
- TARSATA Parent, 1931:19, pl. 3, fig. 71. Type-locality: Bolivia, Mapiri, Sarapiuni. Distr. — Bolivia.
- TRITITARSIS Parent, 1928:158, figs. 8-9. Type-locality: Costa Rica, La Caja. Distr. — Guatemala, Costa Rica.
- UNICOLOR Becker, 1922:139. Type-locality: Peru, Meshagua, Urubamba. Distr. — Peru.
- VARIPES Van Duzee, 1929a:36, pl. 2, fig. 46. Type-locality: Guatemala, Obispo, La Providencia. Distr. — Guatemala.
- VIRIDICOLOR Becker, 1922:139. Type-locality: "Paraguay". Distr. — Paraguay.
- VIRIDIVENTRIS Van Duzee, 1933c:152 (nom. nov. for *currani* Van Duzee). Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- currani* Van Duzee, 1931b:182 (preocc. Parent, 1931). Type-locality: Panama, Barro Colorado I.
- XANTHOTRICHIA Becker, 1922:140. Type-locality: Trinidad, Port of Spain. Distr. — Trinidad.

#### Genus MICROCHRYSTOTUS Robinson

- MICROCHRYSTOTUS Robinson, 1964b:251. Type-species, *mirabilis* Robinson (orig. des.).
- MIRABILIS Robinson, 1964b:251, figs. 6-7. Type-locality: Mexico, Oaxaca, Valle Nacional. Distr. — Mexico.
- TARSALIS Robinson, 1964b:252, figs. 8-9. Type-locality: Mexico, Oaxaca, Valle Nacional. Distr. — Mexico.

#### Genus MICROCYRTURA Robinson

- MICROCYRTURA Robinson, 1964b:245. Type-species, *campsicnemoides* Robinson (orig. des.).
- Ref. — Robinson, 1964b (key).
- CAMPSICNEMOIDES Robinson, 1964b:246, figs. 1-2. Type-locality: Mexico, Hidalgo, Chapulhuacán. Distr. — Mexico (Hidalgo, San Luis Potosí).
- LAMELLATA Robinson, 1964b:250, fig. 3. Type-locality: Mexico, Puebla. Distr. — Mexico (Puebla).
- METATARSALIS Robinson, 1964b:248, fig. 4. Type-locality: Mexico, Guerrero, Tierra Colorada. Distr. — Mexico (Guerrero, Chiapas).
- OAXACENSIS Robinson, 1964b:248, fig. 5. Type-locality: Mexico, Oaxaca, Valle Nacional. Distr. — Mexico (Oaxaca).

# Genus THRYTICUS Gerstäcker

THRYPTICUS Gerstäcker, 1864:43. Type-species, *smaragdinus* Gerstäcker (mon.).

*Aphantotimus* Wheeler, 1890:375. Type-species, *willistoni* Wheeler (Coquillett, 1910:508).

*Xanthotricha* Aldrich, 1896:339. Type-species, *cupulifera* Aldrich (pres. des.).

The larvae of *Thrypticus* are plant miners. They have reduced mouth parts and are probably phytophagous. Ref. — Van Duzee, 1930b, 1931a; Robinson, 1964a (keys).

ABDOMINALIS (Say), 1829:169 (*Chrysotus*). Type-locality: U.S.A., Indiana. Distr. — U.S.A. (Kansas to Michigan and Pennsylvania s. to North Carolina), Costa Rica, Dominica I.

ACUTICAUDA Van Duzee, 1929a:37, pl. 2, fig. 53. Type-locality: Guatemala, Antigua, El Salto. Distr. — Guatemala.

ADAUCTUS Parent, 1933a:256, figs. 19-21. Type-locality: Bolivia, San José. Distr. — Bolivia.

AMOENUS Becker, 1922:144, fig. 59. Type-locality: Bolivia, Sorata. Distr. — Bolivia.

ANALIS Becker, 1922:145. Type-locality: Paraguay, Chaco. Distr. — Paraguay.

BASALIS Van Duzee, 1930b:75. Type-locality: Chile, Los Andes. Distr. — Chile.

BREVECAUDA Van Duzee, 1930b:76. Type-locality: Peru, Lima. Distr. — Peru.

CAUDATUS Parent, 1939:148. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.

CUPULIFERA (Aldrich), 1896:339, pl. 11, figs. 106-106a (*Xanthotricha*). Type-locality: St. Vincent I. Distr. — Mexico, West Indies, Bolivia.

EDWARDSI Van Duzee, 1931a:248, fig. 6. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.

FLAVICORNIS Van Duzee, 1933d:13, figs. 22-23. Type-locality: Peru, Puerto Bermúdez, Rio Pichis. Distr. — Peru.

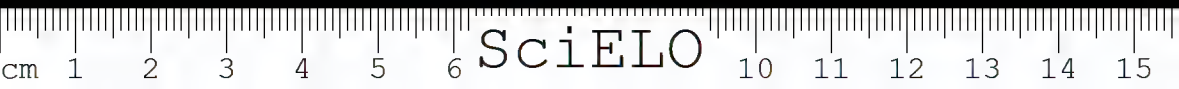
FRATERCULUS (Wheeler), 1890:376 (*Aphantotimus*). Type-locality: U.S.A., Wisconsin. Distr. — U.S.A. (Alaska, California to Minnesota and Tennessee), Canada (Ontario), Mexico, West Indies, Chile.

INSULANUS Van Duzee, 1933d:14, fig. 24. Type-locality: St. Lucia I. Distr. — St. Lucia I.

MINOR (Aldrich), 1896:340 (*Xanthotricha*). Type-locality: St. Vincent I. Distr. — St. Vincent I., Grenada I.

MINUTUS Parent, 1929b:186, fig. 26. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas), Mexico

NIGRISETA Van Duzee, 1931a:247, fig. 5. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.





- PALLIDICOXA Parent, 1928:161, fig. 15. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- PARVULUS Van Duzee, 1930c:86. Type-locality: St. Vincent I. Distr. — Dominica I., St. Vincent I.
- PENICILLATUS Van Duzee, 1931a:246, fig. 4. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.
- PUSILLUS Aldrich, 1901:349. Type-locality: Mexico, Teapa. Distr. — Mexico.
- SCHMIDTI Parent, 1928:160, figs. 13-14. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- SCUTELLATUS Van Duzee, 1931b:184, fig. 23. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- SINGULARIS (Aldrich), 1896:340 (*Xanthotricha*). Type-locality: St. Vincent I. Distr. — St. Vincent I.
- SPRETUS Parent, 1934b:138, figs. 46-47. Type-locality: Mexico, Veracruz, Medellin. Distr. — Mexico.
- VIOLACEUS Van Duzee, 1927b:5. Type-locality: Puerto Rico, Arecibo. Distr. — U.S.A. (Florida), West Indies.
- setosus* Robinson, 1964:118, pl. 6, figs. 113-114. Type-locality: U.S.A., Florida.
- WILLISTONI (Wheeler), 1890:376 (*Aphantotimus*). Type-locality: U.S.A., Wisconsin. Distr. — U.S.A. (Wyoming, Iowa and Missouri to Massachusetts s. to Tennessee and North Carolina), ?Paraguay.

#### Subfamily SYSTEMINAE

##### Genus SYSTEMUS Loew

- SYSTEMUS Loew, 1857a:34. Type-species, *Rhaphium adpropinquans* Loew (Foote, Coulson, & Robinson, 1965:517) = *pallipes* (Roser).

Species of *Systemus* are usually reared from decaying wood or tree-hole debris. Larvae have a distinctive pair of rather large prolegs, and they are said to normally live in the oozing sap wounds of deciduous trees

- RAPTOR Becker, 1922:158, figs. 61-62. Type-locality: "Paraguay". Distr. — Paraguay.

#### Subfamily XANTHOCHLORINAE

##### Genus ACHALCUS Loew

- ACHALCUS Loew, 1857a:30. Type-species, *Porphyrops flavicollis* Meigen (pres. des.).

The genus name has been applied rather indiscriminately in America. Even after transfer of many species to other genera, there remain a few species, usually yellowish in color, from southern South America. There are similar species described from New Zealand. Ref. — Van Duzee, 1930b (key).

- ALBIPALPUS Parent, 1931:20, pl. 3, fig. 75. Type-locality: Chile, Corral. Distr. — Chile.

- BREVINERVIS Van Duzee, 1930b:23, pl. 2, figs. 56-57. Type-locality: Chile, Puerto Montt. Distr. — Chile.
- LONGICORNIS Van Duzee, 1930b:22, pl. 2, figs. 53-55. Type-locality: Chile, Casa Pangue. Distr. — Chile.
- THORACICUS (Philippi), 1865:775 (*Chrysotus*). Type-locality: Chile, Valdivia. N. COMB.

### Genus XANTHINA Aldrich

- XANTHINA Aldrich, 1902:92. Type-species, *plumicauda* Aldrich (mon.).

The genus seems very close to *Achalcus* except for the lack of true preapical bristles on the femora. The palpi are often highly developed and ornate.

- FLAVUS (Aldrich), 1896:326 (*Chrysotus*). Type-locality: St. Vincent I. Distr. — St. Vincent I.
- NIGROMACULATA Van Duzee, 1931b:179, pl. 1, fig. 16. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- PLUMICAUDA Aldrich, 1902:92, fig. 1. Type-locality: Grenada I. Distr. — Grenada I.
- SUBCURVA Van Duzee, 1931b:179, pl. 1, fig. 17. Type-locality: Panama, Barro Colorado I. Distr. — Panama.

### Subfamily ENLINIINAE

#### Genus ENLINIA Aldrich

- Collinellula* Aldrich, 1932:4 (preocc. Strand, 1928). Type-species, *magistri* Aldrich (mon.).

- ENLINIA Aldrich, 1933:168 (nom. nov. for *Collinellula* Aldrich). Type-species, *Collinellula magistri* Aldrich (aut.).

The genus is rarely collected because of the small size of the insects and their habit of hovering or meandering flight close to the substrate. Though not reflected in the literature, the genus may have more species than any other in the Neotropical region. On the basis of limited collecting, I know at present of 52 undescribed species from Mexico, 4 from Panama, and 6 from the island of Dominica.

- ATRATUS (Van Duzee), 1930b:24 (*Achalcus*). Type-locality: Chile, Ancud. Distr. — Chile. N. COMB.

- CILIATA Robinson, 1964a:124, pl. 2, figs. 22-25. Type-locality: U.S.A., North Carolina. Distr. — U.S.A. (Maryland and Indiana s. to North Carolina and Tennessee), Mexico (Veracruz).

- SORDIDUS (Aldrich), 1896:339, pl. 11, figs. 107-107a (*Achalcus*). Type-locality: St. Vincent I. Distr. — St. Vincent I., Grenada I.

The following species is described as having characters close to the genus *Enlinia*, but as having antennae of very different structure. If the described features can be confirmed the species should probably be placed in a new genus.

- EDWARDSAE (Van Duzee), 1930b:24, pl. 2, figs. 58-59 (*Achalcus*). Type-locality: Chile, Concepción. Distr. — Chile. N. COMB.

## Genus HARMSTONIA Robinson

HARMSTONIA Robinson, 1964a:122. Type-species, *intricata* Robinson (orig. des.).

The adults of *Harmstonia* are similar in size, basic wing structure, and habits to those of *Enlinia*. At least some of the species seem to favor areas where there are substrates with a high pH. Ref. — Robinson, 1967b (revision).

ATTENUATA Robinson, 1967b:7, fig. 6. Type-locality: Mexico, Guerrero. Distr. — Mexico.

CLAVICAUDA Robinson, 1967b:8, fig. 7. Type-locality: Mexico, Chiapas. Distr. — Mexico (Chiapas, Morelos, Veracruz).

COSTARICENSIS Robinson, 1967b:10, fig. 10. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.

MEGALOPYGA Robinson, 1967b:9, fig. 8. Type-locality: Mexico, San Luis Potosi, Tamazunchale. Distr. — Mexico (San Luis Potosi, Chiapas).

ORSCURA Robinson, 1967b:6, fig. 4. Type-locality: Mexico, Chiapas. Distr. — Mexico (Chiapas, Guerrero).

ORNATA Robinson, 1967b:11, fig. 11. Type-locality: Mexico, Guerrero. Distr. — Mexico.

PALLIDA Robinson, 1967b:6, fig. 5. Type-locality: Mexico, San Luis Potosi. Distr. — Mexico.

PECTINICAUDA Robinson, 1964a:123 (also 1967b:4, figs. 2, 15). Type-locality: U.S.A., Virginia. Distr. — U.S.A. (Virginia), Mexico (San Luis Potosi s. to Guerrero e. to Chiapas).

PUBESCENS Robinson, 1967b:13, fig. 13. Type-locality: Mexico, Chiapas, near Pichucalco. Distr. — Mexico.

RECTA Robinson, 1967b:12, fig. 12. Type-locality: Mexico, Hidalgo, Chapulhuacán. Distr. — Mexico (Hidalgo, San Luis Potosi).

SETOSA Robinson, 1967b:10, fig. 9. Type-locality: Mexico, Hidalgo, Chapulhuacán. Distr. — Mexico (Hidalgo, San Luis Potosi).

SIMPLEX Robinson, 1967b:5, figs. 3, 16. Type-locality: Dominica I. Distr. — Dominica I.

## Subfamily PELOROPEODINAE

### Genus CHRYSOTIMUS Loew

CHRYSOTIMUS Loew, 1857a:46. Type-species, *pusio* Loew (Coquillett, 1910:524).

BLANDUS Parent, 1934a:260, pl. 67, fig. 10. Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina.

CONFRATERNUS Van Duzee, 1930b:63, pl. 2, fig. 60. Type locality: Chile, Ancud. Distr. — Chile.

DICHROMATUS (Bigot), 1890:295 (*Peodes*). Type-locality: "Chile". Distr. — Chile.

EXILIS (Philippi), 1865:778 (*Dolichopus*). Type-locality: Chile, Santiago. Distr. — Chile. N. comb.

- dorsalis* Van Duzee, 1930b:64, pl. 2, figs. 49-50 (*Anepsiomyia*) Type-locality: Chile, Ancud. N. SYN.
- METALLICUS Parent, 1934b:135, fig. 40. Type-locality: Mexico, Guerrero. Distr. — Mexico.
- OBSCURUS Robinson, 1967a:126, fig. 30. Type-locality: Mexico, Oaxaca. Distr. — Mexico.
- SCHILD Robinson, 1967a:126. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.

#### Genus DISCOPYGIELLA Robinson

- DISCOPYGIELLA Robinson, 1965:51. Type-species, *setosa* Robinson (orig. des.). Ref. — Robinson, 1965 (key).
- CHIAPFENSIS Robinson, 1965:53. Type-locality: Mexico, Chiapas, Tuxtla Gutiérrez. Distr. — Mexico, Panama.
- DISCOLOR Robinson, 1965:55. Type-locality: Mexico, Hidalgo, Chapulhuacán. Distr. — Mexico (Hidalgo, Guerrero, Oaxaca, Chiapas), Panama.
- SETOSA Robinson, 1965:52, fig. 1. Type-locality: Mexico, San Luis Potosi, Tamazunchale. Distr. — Mexico (San Luis Potosi, Oaxaca, Chiapas).
- XEROPHILA Robinson, 1965:54. Type-locality: Mexico, Oaxaca. Distr. — Mexico (Oaxaca, Chiapas).

#### Genus MICROMORPHUS Mik

- MICROMORPHUS Mik, 1878: ? 4. Type-species, *Hydrophorus albipes* Zetterstedt (orig. des.). Ref. — Robinson, 1967e (key).
- ALBIPES Zetterstedt, 1843:454 (*Hydrophorus*). Type-locality: "Sweden". Distr. — Europe, U.S.A., Mexico, Costa Rica, Panama, West Indies, ? New Zealand.
- panamensis* Van Duzee, 1931b:180. Type-locality: Panama, Corozal.
- ASYMMETRICUS Robinson, 1967e:332, fig. 5. Type-locality: Mexico, San Luis Potosi, Tamazunchale. Distr. — Mexico.
- CAUDATUS (Aldrich), 1902:93 (*Achalculus*). Type-locality: Grenada I. Distr. — Grenada I.
- FULVOSETOSUS Parent, 1929b:193, figs. 34-36. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- LITHOPHILUS Robinson, 1967e:333, fig. 4. Type-locality: Mexico, San Luis Potosi, Tamazunchale. Distr. — Mexico.
- PLEBEIUS Parent, 1930a:21, fig. 24. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil. Described from female.

The following species is described with wings, antennae, and genitalia unlike other species of *Micromorphus*. If the described features can be confirmed, the species should probably be placed in a new genus.

- MICIDUS Parent, 1937:130, figs. 40-42. Type-locality: Costa Rica. Distr. — Costa Rica.



## Genus NANOMYINA Robinson

NANOMYINA Robinson, 1964a:119. Type-species, *litorea* Robinson (mon.)  
= *barbata* (Aldrich).

The genus seems to be maritime in its distribution.

BARBATA (Aldrich), 1902:91 (*Chrysotimus*). Type-locality: Grenada I.  
Distr. — U.S.A. (E. coast), Grenada I., Panama. N. comb.

*litorea* Robinson, 1964a:120. Type-locality: U.S.A., North Carolina.  
N. SYN.

## Genus PELOROPEODES Wheeler

PELOROPEODES Wheeler, 1890:373. Type-species, *salax* Wheeler (mon.).

*Anomalopyga* Oldenberg, 1916:187. Type-species, *acuticornis* Oldenberg (mon.). N. SYN.

*Kophosoma* Van Duzee, 1926a:39. Type-species, *Sympycnus falco*  
Aldrich (orig. des.).

*Pachypyga* Parent, 1928:173. Type-species, *costaericae* Parent (mon.).

The genus is more diverse in the American tropics than is evident in the literature. On the basis of limited collecting I know of 17 undescribed species from Mexico.

ALDRICHI Robinson, nom. nov. for *Kophosoma acuticornis* Van Duzee.  
Distr. — U.S.A. (Utah to Michigan to District of Columbia s. to Georgia), Mexico.

*acuticornis* Van Duzee, 1926a:44, figs. 9-12 (*Kophosoma*; preocc. Oldenberg, 1916). Type-locality: U.S.A., Indiana.

CORNUTA (Van Duzee), 1926a:42, figs. 6-8 (*Kophosoma*). Type-locality: U.S.A., California. Distr. — U.S.A. (California, Oregon, Idaho, Michigan), Mexico.

COSTAERICA (Parent), 1928:174, figs. 33-35 (*Pachypyga*). Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.

COXALIS (Aldrich), 1901:344, pl. 6, fig. 21 (*Sympycnus*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico.

EXIGUUS (Van Duzee), 1933d:8, fig. 18 (*Kophosoma*). Type-locality: Guatemala, Guatálón, Moca. Distr. — Guatemala.

FALCO (Aldrich), 1896:336 (*Sympycnus*). Type-locality: St. Vincent I. Distr. — Lesser Antilles.

FRATER (Aldrich), 1902:83 (*Sympycnus*). Type-locality: Grenada I., Lesser Antilles.

FUSCIPES (Van Duzee), 1926a:40, figs. 1-3 (*Kophosoma*). Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (Idaho, New Mexico), Mexico.

GENITALE (Parent), 1931:3, pl. 1, figs. 1-4 (*Kophosoma*). Type-locality: Bolivia, Sorata. Distr. — Bolivia.

ORNATIPES (Van Duzee), 1930b:62 (*Kophosoma*). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina.

SIMILIS (Aldrich), 1896:336 (*Sympycnus*). Type-locality: St. Vincent I. Distr. — Lesser Antilles.

## Subfamily DIAPHORINAE

### Genus ARGYRA Macquart

*Porphyrops* Meigen, 1824:45. Type-species, *Musca diaphana* Fabricius (Curtis, 1835: pl. 541). See discussion.

ARGYRA Macquart, 1834:456. Type-species, *Musca diaphana* Fabricius (Rondani, 1856:141).

*Leucostola* Loew, 1857a:39. Type-species, *Argyra vestita* Wiedemann (mon.).

At present the name *Porphyrops* has priority over *Argyra*. However the established use of *Argyra* plus the extensive misuse of *Porphyrops* for various species of *Rhaphium*, make conservation of the name *Argyra* advisable. No application to the I.C.Z.N. has yet been made.

APICALIS Van Duzee, 1930b:30, pl. 1, fig. 3. Type-locality: Chile, Concepción. Distr. — Chile.

### Genus ASYNDETUS Loew

ASYNDETUS Loew, 1869:34. Type-species, *ammophilus* Loew (Coquillett, 1910:511).

*Anchineura* Thomson, 1869:506. Type-species, *tibialis* Thomson (mon.).

The priority of the generic names is not certain. The Thomson work was dated 1868, but the publication is generally recognized as 1869, and the record of receipt in the library of the Kgl. Danske Videnskaberne Selskabs was at the June 18th meeting, a month after the publication of the Loew genus. In any case, it would seem unwise to displace the name *Asyndetus*. Ref. — Van Duzee, 1919b (key).

BREVIMANUS Van Duzee, 1923b:108. Type-locality: Mexico, Sonora. Distr. — Mexico.

CURRANI Van Duzee, 1931b:172. Type-locality: Panama, Bruja Point. Distr. — Panama.

DISJUNCTUS Van Duzee, 1923b:105. Type-locality: Mexico, Puerto Refugio, Angel de la Guardia I. Distr. — Mexico (Gulf of California).

EXIGUUS Van Duzee, 1927b:4. Type-locality: Puerto Rico, Arecibo. Distr. — Puerto Rico.

FLAVITIBIALIS Van Duzee, 1929a:20. Type-locality: Panama, Tabogilla I. Distr. — Panama.

FRATELLUS Aldrich, 1896:332, pl. 12, fig. 114. Type-locality: St. Vincent I. Distr. — Lesser Antilles.

GEMINUS Becker, 1922:206. Type-locality: Paraguay, S. Bernardino. Distr. — Paraguay.

INTERRUPTUS (Loew), 1861b:37 (*Diaphorus*). Type-locality: "Cuba". Distr. — U.S.A. (Florida), West Indies, Ecuador (Galapagos).

LONGIPALPIS Van Duzee, 1919b:250, fig. 4. Type-locality: Guatemala, Puerto Barrios. Distr. — Guatemala.

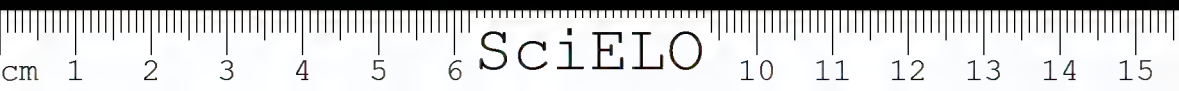
RIDICULUS Parent, 1931:7, pl. 1, figs. 17-19. Type-locality: Chile, Arica. Distr. — Chile.

- HUMILIS* Parent, 1928:164. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- IMITATOR* Becker, 1922:191, figs. 70-71. Type-locality: Peru, Juni, Sicuani. Distr. — Peru.
- INCISUS* Parent, 1928:163, figs. 19-20. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- LACINIATUS* Becker, 1919:172, pl. 14, fig. 9, pl. 15, fig. 2. Type-locality: "Ecuador". Distr. — Ecuador.
- LAMINATUS* Becker, 1922:193, fig. 72. Type-locality: Peru, Lake Titicaca. Distr. — Peru.
- LATIFACIES* Van Duzee, 1933b:69. Type-locality: Ecuador, Galápagos. Distr. — Ecuador (Galápagos).
- LONGIMANUS* Loew, 1861c:62. Type-locality: U.S.A., Middle States. Distr. — U.S.A., Central America, Ecuador.
- LONGIPALPUS* Aldrich, 1896:329. Type-locality: St. Vincent I. Distr. — St. Vincent I, Grenada I.
- LONGIVENTRIS* Van Duzee, 1931c:23. Type-locality: ? Brazil. Distr. — ? Brazil.
- MAGNIPALPUS* Van Duzee, 1927b:2. Type-locality: Cuba, Havana. Distr. — Cuba.
- METATARSATUS* Becker, 1922:194. Type-locality: Argentina, Prov. Salta. Distr. — Argentina.
- MEXICANUS* Robinson, 1967a:120, figs. 20-21. Type-locality: Mexico, Veracruz. Distr. — Mexico, Lesser Antilles.
- MINOR* Parent, 1931:9. Type-locality: Peru, Ucayali, Unini. Distr. — Peru.
- MINUTICORNIS* Van Duzee, 1927b:3. Type-locality: Puerto Rico, Naguabo. Distr. — Puerto Rico.
- MIRANDUS* Van Duzee, 1927b:3. Type-locality: Cuba, Havana. Distr. — Cuba.
- MIRIPALPUS* Parent, 1928:165, fig. 22. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica, Panama.
- MODESTUS* Parent, 1928:165. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- MORRISONI* Van Duzee, 1924b:37. Type-locality: Virgin Islands. Distr. — Virgin Islands.
- NANUS* Parent, 1928:166. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- NIGER* Aldrich, 1896:327. Type-locality: St. Vincent I. Distr. — Lesser Antilles.
- OBLIQUUS* Loew, 1861c:63. Type-locality: U.S.A., New York. Distr. — Canada (Ontario to Nova Scotia), U.S.A. (w. to Kansas s. to Florida), ? Ecuador, ? Paraguay.
- OVALICORNIS* Parent, 1934b:133. Type-locality: Paraguay, Villarica. Distr. — Paraguay.
- PALLIPES* Loew, 1861c:66. Type-locality: U.S.A., Middle States. Distr. — U.S.A. (Iowa to Connecticut s. to Georgia), West Indies, South America.

- PALPARIS Becker, 1922:194. Type-locality: Argentina, Prov. Salta. Distr. Argentina.
- PALPATUS Parent, 1928:164. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- PARADOXUS Aldrich, 1902:90. Type-locality: Grenada I. Distr. — Grenada I., Bolivia.
- PARVIPALPUS Van Duzee, 1931c:21. Type-locality: ?Brazil. Distr. — ? Brazil.
- PEREGRINUS Parent, 1931:9, pl. 1, fig. 23. Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia.
- PICTICORNIS Loew, 1862:214. Type-locality: U.S.A., Illinois. Distr. — U.S.A. (California to Massachusetts s. to Florida), Mexico (Chiapas). Other tropical records in the literature are likely to represent *C. mexicanus* Robinson.
- PICTIPES Becker, 1922:195. Type-locality: Bolivia, Prov. Sara; Perú, Molendo. Distr. — Bolivia, Peru.
- PROXIMUS Aldrich, 1896:326. Type-locality: St. Vincent I. Distr. — Lesser Antilles.
- PYGMAEUS Parent, 1934a:263. Type-locality: Surinam, Paramaribo. Distr. — Surinam.
- SETOSUS Van Duzee, 1931c:20. Type-locality: "Brazil". Distr. — Brazil.
- SINGULARIS Parent, 1931:9, pl. 1, fig. 24. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.
- SOLEATUS Becker, 1922:196, fig. 73. Type-locality: Peru, Urubamba, Umahuankiali and Rosalina. Distr. — Peru.
- SPINIPES Van Duzee, 1924b:19, pl. 1, fig. 39. Type-locality: "Cuba". Distr. — Cuba.
- SUBAPICALIS Becker, 1922:197, figs. 74-75. Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia.
- TEAPANUS Aldrich, 1901:347. Type-locality: Mexico, Tabasco, Teapa. Distr. — U.S.A. (Georgia, Florida), Mexico.
- TUMIDIPIES Becker, 1922:198, figs. 76-77. Type-locality: Peru, Tarma. Distr. — Peru.
- UNICOLOR Becker, 1919:172. Type-locality: Ecuador, Borma and Casitagua. Distr. — Ecuador.
- VELOX Parent, 1931:9. Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia.
- VIRIDIS Becker, 1922:200. Type-locality: Peru: Tarma, Urubamba, Lake Titicaca; Bolivia, Sorata. Distr. — Peru, Bolivia.
- VIVIDUS Loew, 1864:178. Type-locality: U.S.A., Illinois. Distr. — U.S.A. (New York to Kansas s. to Florida), Mexico.

#### Subgenus ACHRADOCERA Becker

- ACHRADOCERA Becker, 1922:207 (as genus). Type-species, *femoralis* Becker (pres. des.). Ref. — Parent, 1933a (key).
- ANGUSTIFACIES (Becker), 1922:207, fig. 78 (*Achradocera*). Type-locality: Chile, Quillota. Distr. — Chile.





- APICALIS** Aldrich, 1896:330. Type-locality: St. Vincent I. Distr. — West Indies. The species is distinct from *C. barbatus* (Loew).
- BARBATUS** (Loew), 1861a:48 (*Synarthrus*). Type-locality: U.S.A., Middle States. Distr. — U.S.A. (Wisconsin and Iowa to Rhode Island s. to Florida), Puerto Rico, Mexico, Ecuador.
- validus* Loew, 1861c:63. Type-locality: U.S.A., Middle States.
- americanus* Wheeler, 1896:154 (*Xiphandrium*). Type-locality: U.S.A., Wisconsin; Illinois; Indiana.
- CHILENSIS** Van Duzee, 1930b:29, pl. 1, figs. 1-2. Type-locality: Chile, Concepción. Distr. — Chile, Argentina.
- femoratus* Bigot, 1890:295 (nec Zetterstedt, 1843). Type-locality: "Chile".
- CONTRACTUS** Van Duzee, 1929a:21, fig. 54. Type-locality: Guatemala, Obispo, La Providencia. Distr. — Guatemala.
- EXCAVATUS** Van Duzee, 1924b:48, pl. 1, figs. 45-46. Type-locality: Virgin Islands. Distr. — Virgin Islands.
- MEMORIALIS** (Becker), 1922:208 (*Achradocera*). Type-locality: Paraguay, S. Bernardino; Trinidad. Port of Spain; Colombia, Baranquilla. Distr. — Colombia, Trinidad, Paraguay.
- INSIGNIS** (Parent), 1933a:247, figs. 4-5 (*Achradocera*). Type-locality: Argentina, Tapikiolé and Trinidad. Distr. — Argentina.
- LONGISETA** (Parent), 1933a:246 (*Achradocera*). Type-locality: Bolivia, Samuhuate; Argentina, San José. Distr. — Bolivia, Argentina.
- MERIDIONALIS** (Becker), 1922:208, fig. 79 (*Achradocera*). Type-locality: "Costa Rica". Distr. — Costa Rica.
- SHANNONI** Van Duzee, 1930b:77, pl. 3, figs. 10-11. Type-locality: Peru, Lima, San Bertolomé. Distr. — Peru.
- TUBERCULATUS** Van Duzee, 1931c:22, figs. 22-24. Type-locality: Bolivia, Santa Cruz Piedra Blanca. Distr. — Bolivia.

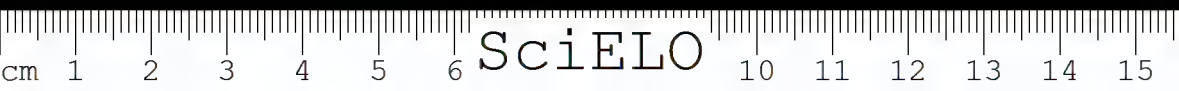
#### Genus DIAPHORUS Meigen

- DIAPHORUS** Meigen, 1824:32. Type-species, *flavocinctus* Meigen (Westwood, 1840:134) = *oculatus* (Fallén).
- Ref. — Van Duzee, 1915a (revision).

#### Subgenus DIAPHORUS Meigen

- ABRUPTUS** Van Duzee, 1931d: 3, fig. 3. Type-locality: Honduras, La Ceiba. Distr. — Honduras.
- ALACER** Parent, 1934a:263, pl. 68, fig. 13. Type-locality: Guyana, Essequibo R., Moraballi Creek. Distr. — Guyana.
- ALBICILIATUS** Van Duzee, 1915a:177. Type-locality: Guatemala, Gualán. Distr. — Guatemala.
- AMAZONICUS** Parent, 1930a:19, fig. 21. Type-locality: Brazil, Amazon. Distr. — Brazil.
- AMICUS** Parent, 1931:10, pl. 2, fig. 30. Type-locality: Bolivia, Mapiri, S. Ernesto. Distr. — Bolivia, Guyana.

- AMOENUS Aldrich, 1902:86. Type-locality: Grenada I. Distr. — Lesser Antilles.
- ANTENNATUS Van Duzee, 1915a:169. Type-locality: Mexico, Veracruz and Córdoba. Distr. — Mexico.
- ARGENTIPALPIS Van Duzee, 1923b:109. Type-locality: Mexico, Loreto. Distr. — Mexico (Lower California).
- BREVIMANUS Van Duzee, 1931b:171. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- CHAMAELEON Becker, 1922:165. Type-locality: Bolivia, Prov. Sara; Argentina.
- CHRYBOTUS Parent, 1928:185, figs. 58-59. Type-locality: Peru, Callao. Distr. — Peru.
- CILIATUS Becker, 1922:165. Type-locality: Peru, Meshagua, Urubamba. Distr. — Peru.
- CONTIGUUS Aldrich, 1896:323. Type-locality: St. Vincent I. Distr. — Lesser Antilles.
- COSTARICENSIS Parent, 1934b:134. Type-locality: Costa Rica, Farm Hamburg. Distr. — Costa Rica.
- DESPECTUS Parent, 1939:145, fig. 6. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- DIMIDIATUS Aldrich, 1896:322. Type-locality: St. Vincent I. Distr. — Lesser Antilles, Mexico.
- DISTINGUENDUS Parent, 1928:184, fig. 57. Type-locality: Peru, Callao. Distr. — Peru.
- DIVERGENS Parent, 1939:145, fig. 7. Type-locality: Costa Rica, Farm Hamburg. Distr. — Costa Rica.
- DUBIUS Aldrich, 1896:324. Type-locality: St. Vincent I. Distr. — Lesser Antilles, South America.
- DYERI Van Duzee, 1931d:4. Type-locality: Honduras, La Ceiba. Distr. — Honduras.
- EDWARDSI Van Duzee, 1930b:80. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina.
- FEMORATUS Walker, 1852:206. Type-locality: "Brazil". Distr. — Brazil.
- FLAVIPES Aldrich, 1896:323. Type-locality: St. Vincent I. Distr. — Lesser Antilles, South America.
- HAMATUS Parent, 1931:11, pl. 2, fig. 31. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru.
- INGLORIUS Parent, 1933a:243, fig. 1. Type-locality: Argentina, San José. Distr. — Argentina.
- INSULANUS Van Duzee, 1930c:86. Type-locality: St. Vincent I. Distr. — Lesser Antilles.
- LEUCOSTOMA Loew, 1861a:58. Type-locality: U.S.A., Maryland. Distr. — Canada, U.S.A. (w. to South Dakota and Louisiana), Guatemala.
- LONGINERVIS Van Duzee, 1931d:6. Type-locality: Honduras, La Ceiba. Distr. — Honduras.
- LUTEIPALPUS Parent, 1929b:190, fig. 30. Type-locality: "Surinam". Distr. — Surinam.



- MACULIPENNIS** Robinson, nom. nov. for *maculatus* Parent. Type-locality: Brazil, Pará, Santarém. Distr. — Brazil, Surinam.  
*maculatus* Parent, 1934a:264, pl. 68, fig. 14 (preocc. Parent, 1930). Type-locality: Brazil, Pará, Santarém.
- MAGNIPALPIS** Van Duzee, 1930b:81. Type-locality: Argentina, Rio Negro, Viedma. Distr. — Argentina.
- MEDIOTINCTUS** Becker, 1922:168, fig. 63. Type-locality: Peru, Meshagua, Urubamba. Distr. — Peru.
- MUNDUS** Loew, 1861a:57. Type-locality: U.S.A., Pennsylvania Distr. — Canada (Quebec), U.S.A. (eastern), West Indies, Surinam, Bolivia.
- NEOTROPICUS** Parent, 1928:168. Type-locality: Costa Rica, La Caja, and San José. Distr. — Costa Rica, El Salvador.
- NIGRESCENS** Aldrich, 1901:346. Type-locality: Mexico, Guerrero. Distr. — Mexico.
- NIGRICANS** Meigen, 1824:33. Type-locality: "Germany". Distr. — Europe, U.S.A. (Maine to Utah s. to Florida and Tennessee), Mexico Central America, Brazil, Argentina.
- opacus* Loew, 1861a:56. Type-locality: U.S.A. New York.
- NIGRIHALTERALIS** Van Duzee, 1931b:171. Type-locality: Panama, France Field, and Barro Colorado I.
- NIGRIPENNIS** Van Duzee, 1932c:12. Type-locality: Peru, Puerto Bermúdez, Rio Pichis. Distr. — Peru.
- OBLONGUS** Parent, 1928:169. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- PARVULUS** Aldrich, 1896:321. Type-locality: St. Vincent I. Distr. — Lesser Antilles, Puerto Rico.
- longipes* Van Duzee, 1927b:1 (*Chrysotus*). Type-locality: Puerto Rico.
- PAUPERCULUS** Parent, 1935:94. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- PROPINQUUS** Becker, 1922:171. Type-locality: Peru, Meshagua, Urubamba. Distr. — Peru.
- PRUINOSUS** Parent, 1930a:21, fig. 23. Type-locality: Brazil, Pernambuco, Recife. Distr. — Brazil.
- SECUNDUS** Becker, 1922:172. Type-locality: Peru, Callanga; Brazil. Distr. — Peru, Brazil.
- SODALIS** Loew, 1861a:58. Type-locality: U.S.A., New York. Distr. — U.S.A. (Iowa to New Hampshire s. to Georgia), Costa Rica, Ecuador.
- SPECTABILIS** Loew, 1861a:57. Type-locality: U.S.A., District of Columbia. Distr. — U.S.A. (eastern), Mexico, Honduras, Costa Rica, Panama, West Indies, Peru, Bolivia, Paraguay, Argentina.
- erunguis* Thomson, 1869:506. Type-locality: Argentina, Buenos Aires.
- approximatus* Aldrich, 1896:321. Type-locality: St. Vincent I.
- SUBSEJUNCTUS** Loew, 1866a:179. Type-locality: "Cuba". Distr. — Cuba, Mexico, Costa Rica.
- deceptivus* Aldrich, 1901:346. Type-locality: Mexico, Guerrero, and Veracruz.



- SUPERBIENS Parent, 1931:11. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru.
- TRIVITTATUS Van Duzee, 1915a:187. Type-locality: U.S.A., Florida. Distr. — U.S.A. (Florida), Mexico, West Indies
- VARIPES Van Duzee, 1929a:19. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- VENTRALIS Van Duzee, 1915a:170. Type-locality: Belize. Distr. — Belize.
- VICINUS Becker, 1922:174, figs. 65-66. Type-locality: Peru, Rosalina, Urubamba; Bolivia, Prov. Sara. Distr. — Peru, Bolivia.
- VIDUUS Parent, 1930a:20, fig. 22. Type-locality: Brazil, Amazon. Distr. — Brazil.

### Subgenus LYRONEURUS Loew

LYRONEURUS Loew, 1857b:38 (as genus). Type-species, *coerulescens* Loew (pres. des.).

I agree with Aldrich (1901, 1902) that *Lyroneurus* is not worthy of generic status. The characteristic curvature of the fourth wing vein in the males cannot be too significant when the close relationship of such species as *Diaphorus spectabilis* Loew is considered. Efforts to redefine the group to include the latter species and others that lack large bristles on the surface of the hypopygium, will encounter species that are intermediate between *D. spectabilis* and species with large hypopygial bristles. Ref. — Parent, 1930b (key).

- ADUSTUS (Wiedemann), 1830:231 (*Dolichopus*). Type-locality: Uruguay, Montevideo. Distr. — Brazil, Uruguay, Paraguay, Argentina,
- ANNULATUS (Macquart), 1842:171, pl. 22, figs. 6-6a (*Chrysotus*). Type-locality: "Brazil". Distr. — Mexico, Lesser Antilles, Brazil. N. comb.
- APICALIS (Becker), 1922:182 (*Lyroneurus*). Type-locality: Argentina, Formosa and Chaco; Paraguay, San Bernardino. Distr. — Argentina, Paraguay.
- CHALYBEUS (Röder), 1892:81 (*Lyroneurus*). Type-locality: "Ecuador". Distr. — Ecuador.
- COERULESCENS (Loew), 1857b:39, pl. 1, figs. 9-10 (*Lyroneurus*). Type-locality: "Mexico". Distr. — Mexico, Surinam, Ecuador, Argentina.
- CURVISPINA Van Duzee, 1929a:17. Type-locality: Guatemala, La Providencia, Obispo; Panama, Barro Colorado I., Taboga I., and Fort Sherman.
- FRATELLUS (Becker), 1922:183 (*Lyroneurus*). Type-locality: Colombia, Sierra San Lorenzo; Argentina, Lules. Distr. — Colombia, Argentina. N. comb.
- LAETUS (Becker), 1922:183 (*Lyroneurus*). Type-locality: "Paraguay". Distr. — Paraguay. N. comb.
- LUTEOVIRIDIS (Parent), 1935:95 (*Lyroneurus*). Type-locality: Colombia, Rio Yurumangui. Distr. — Colombia. N. comb.
- MACULATUS (Parent), 1930b:107, fig. 33 (*Lyroneurus*). Type-locality: Argentina, Chaco de Santiago del Estero. Distr. — Argentina.





- MARGINALIS (Becker), 1922:184 (*Lyroneurus*). Type-locality: Bolivia; Peru, Tarma. Distr. — Peru, Bolivia. N. comb.
- OCCULTUS (Becker), 1922:185 (*Lyroneurus*). Type-locality: Colombia, Sierra San Lorenzo. Distr. — Columbia. N. comb.
- PERPLEXUS Van Duzee, 1929a:18. Type-locality: Panama, Fort Sherman. Distr. — Panama. N. comb.
- PRAESTANS (Parent), 1931:11, pl. 1, fig. 32 (*Lyroneurus*). Type-locality: Peru, Paso de Lares. Distr. — Peru. N. comb.
- SIMPLEX (Aldrich), 1896:333, pl. 12, fig. 117 (*Lyroneurus*). Type-locality: St. Vincent I. Distr. — Lesser Antilles, Mexico, Costa Rica, Peru, Brazil.
- var. BISPINOSUS Becker, 1922:186. Type-locality: "Brazil".
- SUAVIS (Loew), 1857b:40, pl. 1, figs. 11-12 (*Lyroneurus*). Type-locality: "Surinam". Distr. — Costa Rica, Panama, Guyana, Surinam, Bolivia, Argentina. N. comb.
- WILLISTONI Van Duzee, 1931c:14, fig. 20. Type-locality: ? Brazil. Distr. — ? Brazil.

#### Genus IONTHADOPHRYS Van Duzee

- IONTHADOPHRYS Van Duzee, 1930b:20. Type-species, *longihirtus* Van Duzee (mon.).

The genus was originally compared with *Syntormon*, but there seem to be more characters in common with the Diaphorinae and especially the genus *Symbolia*.

- LONGIHIRTUS Van Duzee, 1930b:21, fig. 2, pl. 1, figs. 11-13. Type-locality: Chile: Ancud, Castro, and Puerto Montt. Distr. — Chile.

#### Genus KEIROSOMA Van Duzee

- KEIROSOMA Van Duzee, 1929a:24. Type-species, *albicinctum* Van Duzee (mon.).

Ref. — Robinson, 1964a (key).

- ALBICINCTUM Van Duzee, 1929a:24. Type-locality: Panama, Barro Colorado I. Distr. — Panama, Costa Rica, Puerto Rico. Specimens cited from Florida are not conspecific.

#### Genus PSEUDARGYRA Van Duzee

- PSEUDARGYRA Van Duzee, 1930b:31. Type-species, *cornuta* Van Duzee (orig. des.).

Descriptions indicate that the genus should include two species originally placed in other genera by Van Duzee (1930b).

- CORNUTA Van Duzee, 1930b:31, pl. 1, figs. 6-7. Type-locality: Chile, Ancud. Distr. — Chile.

- FUSCIPENNIS Van Duzee, 1930b:32, pl. 1, figs. 4-5. Type-locality: Chile, Ancud. Distr. — Chile.

- MAGNICORNIS (Van Duzee), 1930b:58, pl. 1, figs. 24-26 (*Sympycnus*). Type-locality: Chile, Ancud. Distr. — Chile. N. comb.

- TARSALE (Van Duzee), 1930b:34, pl. 1, fig. 42, pl. 2, figs. 43-48 (*Stolidosoma*). Type-locality: Chile, Peulla. Distr. — Chile. N. comb.

## Genus SYMBOLIA Becker

- SYMBOLIA Becker, 1922:210. Type-species, *ochracea* Becker (mon.).  
*Cyrtosymbolia* Parent, 1931:10. Type-species, *sinuosa* Parent (mon.).  
Ref. — Robinson, 1966a (revision).
- ALDRICHI Robinson, 1966a:494, figs. 18-21. Type-locality: Mexico, Oaxaca, Sierra Juárez. Distr. — Mexico.
- COSTARICENSIS Robinson, 1966a:493, fig. 9. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.
- HIRTICAUDA Robinson, 1966a:495, fig. 25. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.
- LATIFACIES Robinson, 1966a:495, figs. 22-24. Type-locality: Peru, Iquitos. Distr. — Peru.
- LINEARIS (Aldrich), 1896:317 (*Anepsius*) Type-locality: St. Vincent I. Distr. — Lesser Antilles.  
*thoracicus* Van Duzee, 1930d:51, fig. 6 (*Sympycnus*). Type-locality: St. Vincent I. N. SYN.
- LOEWI (Aldrich), 1901:349 (*Eutarsus*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico.
- LONGIHIRTA (Van Duzee), 1930b:82, pl. 3, figs. 21-22 (*Sympycnus*). Type-locality: Peru, Lima, Matucana and Colonia Perené.
- LUGUBRIS Parent, 1934a:266, pl. 68, figs. 15-17. Type-locality: Colombia, Gorgona I. Distr. — Colombia.
- MACULATA Robinson, 1966a:492, figs. 1-3. Type-locality: Peru, Iquitos. Distr. — Peru.
- MEXICANA Robinson, 1966a:494, figs. 10-12. Type-locality: Mexico, San Luis Potosi, Tamazunchale; Hidalgo, Chapulhuacán. Distr. — Mexico (San Luis Potosi, Hidalgo).
- NIGRIPENNIS (Van Duzee), 1931b:172, pl. 1, fig. 8, not fig. 7 (*Eutarsus*). Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- OCHRACEA Becker, 1922:211, figs. 80-82. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- SCHILDI Robinson, 1966a:492, figs. 4-8. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.
- SETIFER Robinson, 1966a:493, figs. 13-17. Type-locality: Mexico, Oaxaca, Valle Nacional. Distr. — Mexico (Oaxaca).
- SINUATA (Aldrich), 1896:334, pl. 11, fig. 104, pl. 12, figs. 110-115 (*Eutarsus*). Type-locality: St. Vincent I. Distr. — St. Vincent I., Grenada I.
- SINUOSA (Parent), 1931:10, pl. 1, figs. 25-27, pl. 2, figs. 28-29 (*Cyrtosymbolia*). Type-locality: Peru, Meshagua, Urubamba, Pinipini.

## Subfamily RHAPHIINAE

### Genus RHAPHIUM Meigen

- RHAPHIUM Meigen, 1803:272. Type-species, *macrocerum* Meigen (Curtis, 1835: pl. 568).
- Xiphandrium* Loew, 1857a:36. Type-species, *Rhaphium quadrifilatum* Loew (as *quadrifilum*; Coquillett, 1910:621).



*Porphyrops*, authors, not Meigen.

NUBILUM Van Duzee, 1930b:17, pl. 1, figs. 8-9. Type-locality: Chile, Casa Pangue and Puerto Montt. Distr. — Chile.

PAULSENI Philippi, 1865:774. Type-locality: Chile, Santiago. Distr. — Chile.

#### Subfamily PLAGIONEURINAE

##### Genus PLAGIONEURUS Loew

PLAGIONEURUS Loew, 1857b:43. Type-species, *univittatus* Loew (mon.).

UNIVITTATUS Loew, 1857b:43, pl. 1, figs. 16-17. Type-locality: "Cuba". Distr. — U.S.A. (South Dakota and Massachusetts s. to Florida), Mexico, West Indies, Guyana, Surinam, Bolivia, Brazil, Uruguay.

#### Subfamily STOLIDOSOMINAE

##### Genus PSEUDOSYMPYCNUM Robinson

PSEUDOSYMPYCNUM Robinson, 1967c:901. Type-species, *Sympycnum palpi-ger* Van Duzee (orig. des.).

Ref. — Robinson, 1967c (key).

ALBIPALPUS (Parent), 1930a:22, figs. 25-27 (*Sympycnum*). Type-locality: Brazil, Amazon. Distr. — Brazil.

BICOLOR Robinson, 1967c:902, figs. 10-11. Type-locality: Mexico, Oaxaca, Rio Valle Nacional; Chiapas, Puerto Vientes. Distr. — Mexico.

LATIPES (Parent), 1930a:23, figs. 28-30 (*Sympycnum*). Type-locality: Brazil, Amazon. Distr. — Brazil.

PALPIGER (Van Duzee), 1931b:177, pl. 1, figs. 14-15 (*Sympycnum*). Type-locality: Panama, Barro Colorado I. Distr. — Panama.

PERORNATUS Robinson, 1967c:902, figs. 7-9. Type-locality: Dominica I. Distr. — Dominica I.

SINGULARIS (Parent), 1934a:259, pl. 67, figs. 6-9 (*Sympycnum*). Type-locality: Colombia, Gorgona I. Distr. — Colombia. N. COMB.

##### Genus SYMPYCNIDELPHUS Robinson

SYMPYCNIDELPHUS Robinson, 1964a:149. Type-species, *sharpi* Robinson (orig. des.).

Ref. — Robinson, 1967c (key).

COXALIS Robinson, 1967c:901, fig. 6. Type-locality: Mexico, San Luis Potosi, Tamazunchale. Distr. — Mexico.

TIBIALIS Robinson, 1967c:900, figs. 4-5. Type-locality: Mexico, San Luis Potosi, Tamazunchale. Distr. — Mexico (San Luis Potosi, Oaxaca).

##### Genus STOLIDOSOMA Becker

STOLIDOSOMA Becker, 1922:213. Type-species, *permutans* Becker (Robinson, 1967c:893).

Ref. — Robinson, 1967c (key).

ABBREVIATUM Parent, 1928:170, figs. 23-26. Type-locality: Costa Rica, La Caja. Distr. — Mexico, Costa Rica.

ABDOMINALE Robinson, 1967c:897, fig. 1. Type-locality: Costa Rica, Turrialba. Distr. — Mexico, Costa Rica.

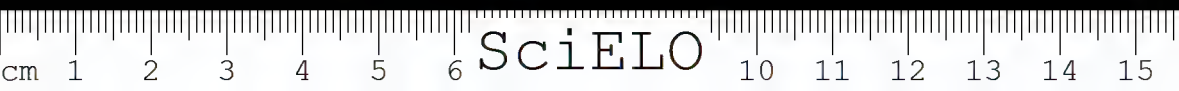
- ACUTUM Robinson, 1967c:898. Type-locality: Costa Rica, Higuito, San Mateo. Distr. — Costa Rica.
- BICOLOR Parent, 1934a:276, pl. 71, figs. 39-40. Type-locality: Guyana, Essequibo R., Moraballi Creek. Distr. — Guyana.
- CURRANI (Van Duzee), 1931b:175, pl. 1, figs. 12-13 (*Sympycnus*). Type-locality: Panama, Barro Colorado I. Distr. — Panama, Costa Rica.
- CYANEUM Becker, 1922:215, figs. 85-87. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- EQUES (Loew), 1864:154 (*Eutarsus*). Type-locality: "Venezuela". Distr. — Venezuela.
- FLAVICAUDA (Van Duzee), 1931b:176 (*Sympycnus*). Type-locality: Panama, Barro Colorado I. Distr. — Panama, ? Brazil.
- FLAVIDUM Robinson, 1967c:895. Type-locality: Mexico, Guerrero, Tierra Colorada. Distr. — Mexico.
- HEXACHAETA Robinson, 1967c:898, figs. 2-3. Type-locality: Dominica I. Distr. — Dominica I.
- INORNATUM Robinson, 1967c:898. Type-locality: Costa Rica, Pedregosa. Distr. — Costa Rica.
- LUCIDUM Becker, 1922:214, figs. 83-84. Type-locality: Peru, Pichís, Puerto Bermúdez. Distr. — Peru.
- MICROGAMUM (Parent), 1928:172, figs. 30-32 (*Sympycnus*). Type-locality: Costa Rica, San José. Distr. — Costa Rica.
- OBSCURUM Parent, 1931:20, pl. 3, figs. 76-77. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru. As described, the species would have to be a very aberrant *Stolidosoma* or a member of some other genus.
- PERMUTANS Becker, 1922:217, figs. 88-89. Type-locality: Colombia, Sierra San Lorenzo. Distr. — Mexico, Panama, Colombia, Guyana.
- UNISPINA (Van Duzee), 1931b:175, pl. 1, fig. 11 (*Sympycnus*). Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- VARIPEX Robinson, 1967c:896. Type-locality: Mexico, Oaxaca, Rio Valle Nacional. Distr. — Mexico.
- VIOLACEUM (Van Duzee), 1929a:23 (*Argyra*). Type-locality: Guatemala, La Providencia, Obispo. Distr. — Mexico, Guatemala.

### Subfamily SYMPYCNINAE

(Campsicneminae)

### Genus CALYXOCHETUS Bigot

- CALYXOCHAETUS Bigot, 1888b:xxiv. Type-species, *Sympycnus nodatus* Loew (as *notatus*; orig. des.).
- Nothosympycnus* Wheeler, 1899:51. Type-species, *vegetus* Wheeler (Coquillett, 1910:576).  
Ref. — Parent, 1930b; Van Duzee, 1930d (keys).
- FURCATUS (Van Duzee), 1929a:29, figs. 39-40 (*Nothosympycnus*). Type-locality: Guatemala, Antigua, El Salto. Distr. — Mexico, Guatemala.





- HASTATUS (Van Duzee), 1930d:57, pl. 2, figs. 74-75 (*Sympycnus*). Type-locality: U.S.A., California, San Diego. Distr. — U.S.A. (California), Mexico.
- LAMELLICORNIS Parent, 1930b:105, figs. 26-29. Type-locality: Mexico, Jalisco, Guadalajara. Distr. — Mexico.
- LOEWI Parent, 1930b:104, figs. 22-25. Type-locality: "Costa Rica". Distr. — Costa Rica.
- METATARSALIS Robinson, 1966b:272. Type-locality: Mexico, San Luis Potosí, El Salto. Distr. — Mexico.
- ORNATUS Parent, 1930b:106, figs. 30-32. Type-locality: Mexico, Jalisco. Distr. — Mexico.
- PATELIFER Parent, 1934b:136, figs. 41-44. Type-locality: Mexico, Chiapas, San Cristóbal. Distr. — Mexico.
- UNIPILUS (Van Duzee), 1929a:29, pl. 2, fig. 41 (*Nothosympycnus*). Type-locality: Guatemala, Antigua, El Salto. Distr. — Guatemala.

#### Genus FILATOPUS Miller

- Nematopus* Parent, 1933d:74 (preocc. Berthold, 1827; Agassiz, 1846; Sars, 1863). Type-species, *ciliatus* Parent (pres. des.).
- FILATOPUS Miller, 1945:72. Type-species, *Nematopus ciliatus* Parent (aut.).
- The genus is interpreted to include the following South American species on the basis of remarks by F. W. Edwards in Van Duzee (1930:57).
- NIGRIPALPIS (Van Duzee), 1930b:56 (*Sympycnus*). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina. N. COMB.

#### Genus HYPTIOCHETA Becker

- HYPTIOCHETA Becker, 1922:245. Type-species, *convexa* Becker (mon.).
- CONVEXA Becker, 1922:246, figs. 105-106. Type-locality: Peru, Urubamba. Distr. — Peru.

#### Genus NEOPARENTIA Robinson

- NEOPARENTIA Robinson, 1967d:252. Type-species, *bisetosa* Robinson (orig. des.).
- Ref. — Robinson, 1967d (key).
- BICOLOR (Parent), 1954:223, figs. 3-5 (*Nematoproctus*). Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- BISETOSA Robinson, 1967d:253, figs. 1-2. Type-locality: Mexico, Chiapas, Pueblo Nuevo. Distr. — Mexico (Chiapas, Oaxaca).
- DEFORMIS Robinson, 1967d:256, figs. 4-5. Type-locality: Mexico, Oaxaca, Sierra Juárez. Distr. — Mexico (Oaxaca, Chiapas).
- OBSCURA Robinson, 1967d:257, fig. 6. Type-locality: Mexico, Oaxaca, Rio Valle Nacional. Distr. — Mexico (Oaxaca, Chiapas).
- SCHILDI Robinson, 1967d:258, fig. 11. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.
- TARSALIS Robinson, 1967d:257, figs. 7-10. Type-locality: Mexico, Oaxaca, Rio Valle Nacional. Distr. — Mexico (Oaxaca, Chiapas).

### Genus PARASYNTORMON Wheeler

- PARASYNTORMON Wheeler, 1899:41. Type-species, *asellus* Wheeler (Coquillett, 1910:585).
- Neosyntormon* Curran, 1934:230. Type-species, *Parasyntormon montivagum* Wheeler (orig. des.).
- INORNATUS Becker, 1919:178, pl. 15, fig. 1. Type-locality: Ecuador, Mirador. Distr. — Ecuador.
- WHEELERI Aldrich, 1901:343, pl. 6, fig. 19. Type-locality: Mexico, Mexico City. Distr. — Mexico.

### Genus PINACOCERUS Van Duzee

- PINACOCERUS Van Duzee, 1930b:11. Type-species, *nodicornis* Van Duzee (mon.).

The genus was originally placed in the Dolichopodinae because of the *Paraclius*-like wing venation. The structure of the genitalia indicates closer relationship to *Sympycnus*.

- NODICORNIS Van Duzee, 1930b:13, fig. 1, pl. 2, figs. 67-69. Type-locality: Argentina, Rio Negro, Lake Nahuel Huapi. Distr. — Argentina.

### Genus SYMPYCNUM Loew

- SYMPYCNUM Loew, 1857a:42. Type-species, *Porphyrops annulipes* Meigen (Coquillett, 1910:610).

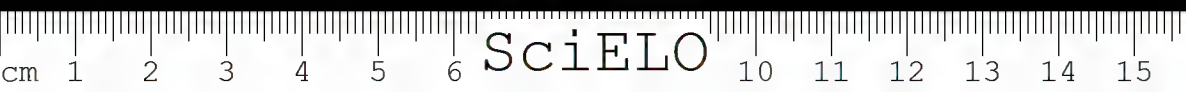
- Gymnoceromyia* Bigot, 1890:293. Type-species, *andicola* Bigot (mon.).

The genus *Sympycnus* is the predominant element of the family in southern South America. Ref. — Van Duzee, 1930b, 1930d; Parent, 1932a (keys).

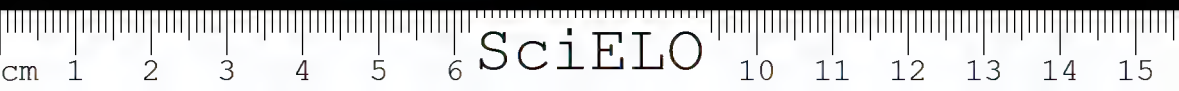
### Subgenus SYMPYCNUM Loew

- AEQUALIS Becker, 1922:222. Type-locality: Argentina, Prov. Salta. Distr. — Argentina, Chile.
- AEQUATORIALIS Becker, 1919:174, pl. 14, fig. 3. Type-locality: Ecuador, Chillacocha. Distr. — Ecuador.
- ALBIBARBUS Parent, 1932a:46, figs. 8-9. Type-locality: Peru, Juliaca. Distr. — Peru.
- ALBICILIATUS Van Duzee, 1930b:46. Type-locality: Argentina, Rio Negro, Lake Nahuel Huapi. Distr. — Argentina, Chile, Peru.
- ALBICINCTUS Parent, 1932a:49, figs. 17-18. Type-locality: Bolivia, Sorata. Distr. — Bolivia.
- ALBIHIRTUS Van Duzee, 1930b:50, pl. 1, figs. 18-19. Type-locality: Argentina, Maquinchao. Distr. — Argentina.
- ANDICOLA (Bigot), 1890:293 (*Gymnoceromyia*). Type-locality: "Chile". Distr. — Chile, Argentina.
- ANGULINERVIS Parent, 1939:140, fig. 1. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- ANGUSTIPENNIS Aldrich, 1901:349, pl. 6, fig. 20. Type-locality: Mexico, Orizaba. Distr. — Mexico.
- ANNULATUS Parent, 1929b:194, figs. 37-38. Type-locality: "Argentina". Distr. — Argentina.

- ANORMALIS Parent, 1932a:61, fig. 36. Type-locality: Chile, Valparaiso. Distr. — Chile.
- ANTARCTICUS (Walker), 1836:347 (*Medetera*). Type-locality: Chile, Magellan Straits, Port Famine. Distr. — Chile.
- ANTENNATUS Becker, 1922:223, fig. 90. Type-locality: Argentina, Prov. Salta. Distr. — Argentina.
- ANTICUS Becker, 1919:175, pl. 14, fig. 1, pl. 15, fig. 4. Type-locality: Ecuador: Casitagua, El Angel, Mirador, and Cuenca. Distr. — Ecuador.
- APPENDICULATUS Van Duzee, 1930b:87, pl. 3, fig. 17-20. Type-locality: Chile, Los Andes. Distr. — Chile.
- ARGENTIMANUS Parent, 1932a:48, figs. 11-13. Type-locality: Peru, Paso de Lares. Distr. — Peru.
- ARMATUS Becker, 1922:224, figs. 91-92. Type-locality: Peru, Callanga. Distr. — Peru.
- AUDAX Parent, 1932a:52, figs. 21-22. Type-locality: Bolivia, Sorata. Distr. Bolivia.
- BICOLORIPES Van Duzee, 1930b:53, figs. 3-4, pl. 1, figs. 36-37. Type-locality: Argentina, Bariloche. Distr. — Argentina, Chile.
- BIFIDUS Becker, 1919:177, pl. 14, fig. 4. Type-locality: Ecuador: Cuenca, Yausai, Mirador, Casitagua, and Loja. Distr. — Ecuador.
- BIPILUS Van Duzee, 1929a:28, pl. 1, figs. 37-38. Type-locality: Guatemala, Antigua, El Salto. Distr. — Guatemala.
- BREVITALUS Van Duzee, 1930b:42, pl. 1, fig. 14. Type-locality: Chile, Peulla. Distr. — Chile.
- BREVITARSIS Becker, 1922:225, fig. 93. Type-locality: Paraguay, San Bernardino. Distr. — Paraguay.
- BULLOCKI Van Duzee, 1933c:151 (as *bullacki*) (nom. nov. for *imperfectus* Van Duzee). Type-locality: Chile, Angol. Distr. — Chile.  
*imperfectus* Van Duzee, 1929a:25, pl. 1, figs. 30-31 (preocc. Becker, 1918). Type-locality: Chile, Angol.
- CHILENSIS Parent, 1928:186, figs. 60-61. Type-locality: Chile, Limache. Distr. — Chile.
- CILIATUS Becker, 1922:226. Type-locality: Argentina, Prov. Salta. Distr. — Argentina.
- CILIFEMORATUS Parent, 1932a:42, fig. 3. Type-locality: Chile, Valparaiso. Distr. — Chile.
- CILITIBIA Parent, 1932a:50, figs. 17-18. Type-locality: Bolivia, La Paz. Distr. — Bolivia.
- CLAVATUS Van Duzee, 1913a:271. Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (Utah, Colorado, Arizona, New Mexico), Mexico.
- COMATUS Van Duzee, 1931a:249. Type-locality: Uruguay, Montevideo. Distr. — Uruguay, Argentina.
- CRINIPES Becker, 1922:227, fig. 94. Type-locality: Peru, Puno, Lake Titicaca. Distr. — Peru, Bolivia.
- CYLINDRICUS Van Duzee, 1930b:43. Type-locality: Chile, Los Andes. Distr. — Chile, Argentina.
- DAMPFI Van Duzee, 1934a:80, figs. 1-6. Type-locality: Mexico, State of Mexico. Distr. — Mexico.



- DICHAETUS Parent, 1932a:56, figs. 27-29. Type-locality: Peru, Mamara; Chile, Talcahuano. Distr. — Peru, Chile.
- DIFFICILIS Van Duzee, 1930b:45. Type-locality: Chile, Ensenada. Distr. — Chile.
- DISCOLOR (Bigot), 1890:292 (*Xiphandrium*). Type-locality: "Chile". Distr. — Chile.
- DIVERSIPES Van Duzee, 1930b:47, pl. 1, fig. 15. Type-locality: Chile, Ancud. Distr. — Chile, Argentina (Bariloche).
- DOLOSUS Parent, 1934b:137, fig. 45. Type-locality: Paraguay, Villarica. Distr. — Paraguay.
- DOMINULUS Parent, 1932a:58, fig. 32. Type-locality: Peru, Cuzco. Distr. — Peru.
- ELANGELI Becker, 1919:174, pl. 14, fig. 10, pl. 15, fig. 3. Type-locality: Ecuador, El Angel. Distr. — Ecuador, Peru, Bolivia.
- ELEGANS Parent, 1932a:47, fig. 10. Type-locality: Peru, Arequipa. Distr. — Peru.
- ERRANEUS Becker, 1922:229. Type-locality: Argentina, Prov. Salta. Distr. — Argentina.
- FERNANDEZENSIS Harmston, 1955:37. Type-locality: Chile, Juan Fernández. Distr. — Chile.
- FILIFORMIS Van Duzee, 1929a:27, pl. 1, fig. 34, pl. 2, figs. 35-36. Type-locality: Guatemala, Antigua, El Salto. Distr. — Guatemala.
- FIMBRIATUS Parent, 1932a:56, fig. 26. Type-locality: Chile, Coquimbo. Distr. — Chile.
- FLAVICILIATUS Van Duzee, 1931a:250. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.
- FUSCIPENNIS Van Duzee, 1930b:49. Type-locality: Chile, Concepción. Distr. — Chile.
- FUSCIVENTRIS Van Duzee, 1930b:52, pl. 1, figs. 22-23. Type-locality: Argentina, Rio Negro, Lake Gutiérrez. Distr. — Argentina.
- GENICULATUS Parent, 1932a:44, fig. 6. Type-locality: Peru, Arequipa. Distr. — Peru.
- GLOBULITARSIS Becker, 1922:230, fig. 95. Type-locality: Peru, Puno, Titicaca, and Tarma. Distr. — Peru.
- GRACILIS Parent, 1934a:259, pl. 67, fig. 5. Type-locality: Chile, Panguipulli. Distr. — Chile.
- GRANDICORNIS Van Duzee, 1930b:59, pl. 1, figs. 28-31. Type-locality: Chile, Puerto Montt. Distr. — Chile.
- HAMATUS Becker, 1922:231, figs. 96-97. Type-locality: Chile: Corral, and Valparaiso; Peru, Urubamba, Cuzco(?); Bolivia, La Paz; Argentina, Prov. Tucumán. Distr. — Peru, Bolivia, Chile, Argentina.
- INSOLENS Van Duzee, 1930b:44, pl. 1, fig. 27. Type-locality: Argentina, Rio Negro, Lake Nahuel Huapi. Distr. — Argentina.
- INTEGER Becker, 1922:232. Type-locality: Paraguay, San Bernardino. Distr. — Paraguay.
- INTERMEDIUS Becker, 1922:233, fig. 98. Type-locality: Peru: Cuzco, Puno, and Titicaca; Bolivia. Distr. — Peru, Bolivia.
- LIBER Parent, 1932a:59, fig. 33. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.





- LOBATUS Van Duzee, 1930b:85, pl. 3, figs. 14-16. Type-locality: Peru, Lima, Verrugas Cañon. Distr. — Peru.
- LONGIPES Van Duzee, 1929a:26, pl. 1, figs. 32-33. Type-locality: Chile, Angol. Distr. — Chile.
- LUCTUOSUS (Bigot), 1888a:23 (*Chrysotus*). Type-locality: Chile, Tierra del Fuego, Orange Bay. Distr. — Chile.
- MAGELLANICUS Robinson, nom. nov. for *calcaratus* Parent. Type-locality: Chile, Punta Arenas. Distr. — Chile.
- calcaratus* Parent, 1932a:43, fig. 5 (preocc. Van Duzee, 1930d). Type-locality: Chile, Punta Arenas.
- MAGNUS Van Duzee, 1930b:84, pl. 3, fig. 13. Type-locality: Peru, Tarma, Chanchamayo. Distr. — Peru.
- MEDIUS Parent, 1932a:51, fig. 19-20. Type-locality: Peru, Juliaca. Distr. — Peru.
- MINUTUS Parent, 1932a:43, fig. 4. Type-locality: "Bolivia". Distr. — Bolivia.
- MIRICORNIS Parent, 1932a:41, figs. 1-2. Type-locality: Chile, Valparaíso. Distr. — Chile.
- MONTICOLUS Becker, 1919:176, pl. 14, fig. 2, pl. 15, fig. 9. Type-locality: Ecuador: Quinua-Loma, La Rinconada, Yausai, El Angel, Riobamba, and Cuenca. Distr. — Ecuador.
- NEMORALIS (Philippi), 1865:777 (*Dolichopus*). Type-locality: Chile, Valdivia. Distr. — Chile.
- tenuitarsis* Van Duzee, 1930b:52. Type-locality: Chile, Castro.
- NIGRICILIATUS Becker, 1922:235. Type-locality: Chile, Quillota. Distr. — Chile, Argentina.
- NIGRICOXA Becker, 1922:235. Type-locality: Argentina, Prov. Salta. Distr. — Argentina.
- OBSCURATUS Brèthes, 1919:41, fig. 9. Type-locality: Chile, Rio Blanco. Distr. — Chile.
- PACIFICUS Parent, 1932a:57, figs. 30-31. Type-locality: Peru, Cuzco. Distr. — Peru.
- PALLIDICORNIS Van Duzee, 1930b:57. Type-locality: Chile, Puerto Montt. Distr. — Chile, Peru.
- PALLIDIMANUS Van Duzee, 1933d:8, fig. 17. Type-locality: Brazil, Minas Gerais, Belo Horizonte. Distr. — Brazil.
- PARVULUS Van Duzee, 1930b:42. Type-locality: Argentina, Bariloche. Distr. — Argentina, Chile.
- PATELLATUS Parent, 1928:171, figs. 27-29. Type-locality: Costa Rica, La Caja. Distr. — Mexico, Costa Rica, Panama.
- PATELLITARIS Becker, 1922:236, fig. 99. Type-locality: Peru, Puno, Lake Titicaca, and Cuzco. Distr. — Peru.
- PAUPER Parent, 1932a:45, fig. 7. Type-locality: Peru, Cuzco. Distr. — Peru.
- PENNATUS Van Duzee, 1930b:87, pl. 3, fig. 37. Type-locality: Argentina, Mendoza. Distr. — Argentina.
- PICTICORNIS Van Duzee, 1930b:86. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina.

- PILITARSIS** Becker, 1922:236, figs. 100-101. Type-locality: Peru, Sicuani. Distr. — Peru, Bolivia.
- PLANIPES** Van Duzee, 1931b:176. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- PLATYCHIRUS** Parent, 1932a:53, fig. 23. Type-locality: Chile, Valparaiso, Coronel. Distr. — Chile.
- PLATYPUS** Becker, 1922:237, fig. 102. Type-locality: Chile, Palca. Distr. — Chile.
- POLLINOSUS** Van Duzee, 1930b:83, pl. 3, fig. 12. Type-locality: Peru, Lima, Verrugas Cañon. Distr. — Peru.
- PROLETARIUS** Parent, 1932a:55. Type-locality: Peru, Paso de Lares. Distr. — Peru.
- PROPINQUUS** Parent, 1932a:60, figs. 34-35. Type-locality: Ecuador, Guayaquil. Distr. — Ecuador.
- SPINIPES** Van Duzee, 1930b:82. Type-locality: Argentina, Bahía Blanca. Distr. — Argentina.
- SPINITARSIS** Van Duzee, 1932c:17, fig. 20. Type-locality: Peru, Matucana. Distr. — Peru.
- SUBDILATATUS** Van Duzee, 1930b:48, pl. 1, figs. 16-17. Type-locality: Chile, Los Andes. Distr. — Chile, Argentina.
- TENUIPES** Becker, 1919:175, pl. 15, fig. 11. Type-locality: Ecuador: Tulcán, El Angel, La Rinconada, Alausi, and Yausai. Distr. — Ecuador.
- TERMINALIS** Van Duzee, 1930b:50, pl. 1, figs. 20-21. Type-locality: Chile, Concepción. Distr. — Chile.
- VARICOLOR** Parent, 1932a:54, figs. 24-25. Type-locality: Peru, Titicaca; Ecuador, Guayaquil. Distr. — Peru, Ecuador.
- VARIPES** Aldrich, 1901:344. Type-locality: Mexico, Guerrero. Distr. — Mexico.

#### Subgenus *SUBSYMPYCINUS* Becker

- SUBSYMPYCINUS** Becker, 1922:244 (as genus). Type-species, *griseicollis* Becker (mon.).
- GRISEICOLLIS** Becker, 1922:244, figs. 103-104 (? *Subsympycinus*). Type-locality: Peru, Arequipa. Distr. — Peru.

#### Genus *SYNTORMON* Loew

- SYNTORMON** Loew, 1857a:35. Type-species, *Rhaphium metathesis* Loew (Coquillett, 1910:611).
- Synarthrus* Loew, 1857a:35. Type-species, *Musca pallipes* Fabricius (mon.).
- EDWARDSI** Van Duzee, 1930b:19, pl. 1, fig. 10. Type-locality: Chile, Concepción. Distr. — Chile.
- QUADRATUS** Aldrich, 1901:342, pl. 6, figs. 18-18a. Type-locality: Mexico, Mexico City. Distr. — Mexico.
- ROTUNDICORNIS** Van Duzee, 1931c:24, figs. 25-27. Type-locality: "Brazil". Distr. — Brazil.



## Genus TELMATURGUS Mik

TELMATURGUS Mik, 1874:349. Type-species, *Sympycnus tumidulus* Raddatz (orig. des.).

COSTARICENSIS Robinson, 1967e:122, figs. 24-25. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.

## Sufamily DOLICHOPODINAE

### Genus CHEIROCERUS Parent

CHEIROCERUS Parent, 1930a:13. Type-species, *palmaticornis* Parent (mon.).

PALMATICORNIS Parent, 1930a:13, figs. 10-12. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil.

PENNATICORNIS Parent, 1931:11, pl. 2, figs. 33-35. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.

### Genus DOLICHOPUS Latreille

DOLICHOPUS Latreille, 1796:159. Type-species, *Musca unguata* Linnaeus (Latreille, 1810:443).

Ref. — Van Duzee, Cole, & Aldrich, 1921 (revision); Van Duzee & Curran, 1934a (key, males), 1934b (key, females); Steyskal, 1938, 1942, 1947, 1959 (biology).

BIFRACTUS Loew, 1861a:19. Type-locality: U.S.A., Nebraska. Distr. — Canada (Alberta to Quebec), U.S.A. (New York to Utah), Mexico (Morelos).

MYOSOTUS Osten Sacken, 1887:213. Type-locality: Mexico, Sonora. Distr. — Canada (British Columbia), U.S.A. (e. to Iowa, ? New Jersey), Mexico.

PLUMIPES (Scopoli), 1763:334 (*Musca*). Type-locality: "Yugoslavia". Distr. — Europe, Canada, Alaska, Greenland, U.S.A., Mexico.

### Genus GONIONEURUM Becker

GONIONEURUM Becker, 1922:98. Type-species, *varum* Becker (mon.).

VARUM Becker, 1922:99, figs. 37-38. Type-locality: Colombia, Sierra San Lorenzo.

### Genus HERCOSTOMUS Loew

HERCOSTOMUS Loew, 1857a:9. Type-species, *Sybistroma longiventris* Loew (orig. des.).

The species placed here should all be examined carefully to determine their true relationships. Descriptions indicate that some if not all might be transferred to other genera.

FLAVIMANUS Van Duzee, 1934b:372. Type-locality: Guyana, Kartabo. Distr. — Guyana.

PANAMENSIS Van Duzee, 1931b:185, pl. 1, fig. 24. Type-locality: Panama, Barro Colorado I. Distr. — Panama.

PETULANS Parent, 1939:146, figs. 8-9. Type-locality: Costa Rica, Hamburg Farm. Distr. — Costa Rica.

- PLUMITARSIS Parent, 1931:12, pl. 2, figs. 36-38. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- PROBLEMATICUS Parent, 1930a:14, figs. 13-14. Type-locality: Brazil, Pará, Belém. Distr. — Brazil.

### Genus PARACLIUS Loew

PARACLIUS Loew, 1864:97. Type-species, *Pelastoneurus arcuatus* Loew (Coquillett, 1910:583). See discussion.

*Leptocorypha* Aldrich, 1896:315. Type-species, *pavo* Aldrich (mon.). N. SYN.

At present, the rules do not permit the use of the name, *Paracilius* Loew, which is technically an emendation of *Paracilius* Bigot. However, the Loew name represents the genus concept as it has been recognized for the last hundred years, and conservation of the emendation, *Paracilius*, with the type species, *arcuatus*, seems advisable. As described, the type species of *Paracilius* Bigot, *Dolichopus heteroneurus*, is clearly a *Pelastoneurus* near to or the same as *P. abbreviatus* of eastern North America. Unless the name *Paracilius* Bigot is suppressed, it will have priority over the name *Pelastoneurus*, while all species now called *Paracilius* or *Paracilius* will need to be placed under *Leptocorypha* or some other name. Ref. — Aldrich, 1904; Van Duzee, 1930b (keys).

ABERRANS Robinson, 1964a:180, pl. 6, fig. 112. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas), Mexico (San Luis Potosi).

ACUTICORNIS Van Duzee, 1929a:51, pl. 2, figs. 59-60. Type-locality: "Guatemala". Distr. — Guatemala, Panama.

ALBIMANUS Van Duzee, 1929a:47. Type-locality: Costa Rica, Cachi. Distr. — Guatemala, Costa Rica.

ALBISIGNATUS Parent, 1928:155, figs. 1-4. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica, Guatemala.

*terminalis* Van Duzee, 1929a:50, pl. 2, fig. 58. Type-locality: Guatemala, Antigua. N. SYN.

AMAZONAE Parent, 1929b:176, figs. 7-8. Type-locality: Brazil, Amazon. Distr. — Brazil.

ANGUSTICAUDA Van Duzee, 1933a:23, figs. 47-48. Type-locality: Guatemala, Guatalón, Moca. Distr. — Guatemala.

ANGUSTIPENNIS Van Duzee, 1929a:42. Type-locality: Guatemala, La Providencia, Obispo. Distr. — Guatemala.

APICALIS Parent, 1954:224. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.

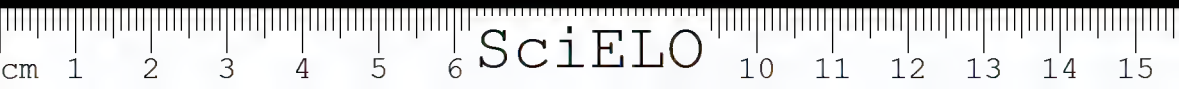
ARCUATUS (Loew), 1861a:39 (*Pelastoneurus*). Type-locality: "Cuba". Distr. — West Indies.

ARGENTATUS Parent, 1934b:128, figs. 31-32. Type-locality: Costa Rica, Farm Hamburg. Distr. — Costa Rica.

BREVICORNIS Van Duzee, 1931b:192. Type-locality: Panama, Barro Colorado I., Corozal, France Field. Distr. — Panama.

BREVIMANUS Van Duzee, 1931a:244, fig. 7. Type-locality: Uruguay, Montevideo. Distr. — Uruguay, Chile.

BREVIVENTRIS Van Duzee, 1931d:8, fig. 5. Type-locality: unknown. Distr. — unknown.





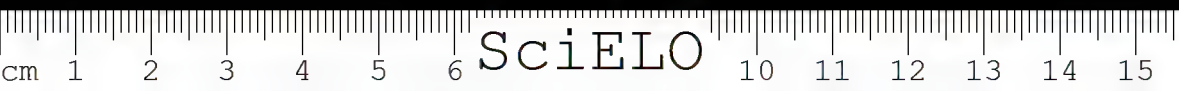
- CLAVICULATUS** Loew, 1866b:45. Type-locality: U.S.A., New York. Distr. — Canada (Ontario to Nova Scotia), U.S.A. (s. to North Carolina), ? Central America, Grenada I.
- COXALIS** Van Duzee, 1933a:20, figs. 40-42. Type-locality: Guatemala, Po-chuta, Santa Emilia. Distr. — Guatemala.
- DIFFICILIS** Becker, 1922:47. Type-locality: Trinidad, Port of Spain; Colombia, Santa Maria. Distr. — Trinidad, Colombia.
- DISCIFER** Aldrich, 1902:80. Type-locality: Grenada I. Distr. — West Indies, Central America.
- DISCOPHORUS** Parent, 1933a:252, fig. 13. Type-locality: Bolivia, Chiquitos, San José. Distr. — Bolivia.
- EDWARDSI** Van Duzee, 1931a:243, figs. 8-10. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.
- HLONGATUS** Van Duzee, 1930a:72. Type-locality: St. Vincent I. Distr. — Lesser Antilles.
- IXIMIUS** Van Duzee, 1931b:189, pl. 2, fig. 33. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- MEMORATUS** Aldrich, 1901:340. Type-locality: Mexico, Veracruz, Teapa, and Frontera. Distr. — Mexico.
- FILIFER** Aldrich, 1896:314, pl. 11, fig. 102. Type-locality: St. Vincent I. Distr. — U.S.A. (Florida), Mexico, West Indies
- FLAGELLATUS** (Harmston), 1952:293 (*Hercostomus*). Type-locality: U.S.A., Alabama (immigrant found in hold of ship from Panama). Distr. — ? Panama.
- FLAVICAUDA** Van Duzee, 1931b:190, pl. 2, figs. 34-35. Type-locality: Panama, France Field. Distr. — Panama.
- FLAVIPES** (Aldrich), 1901:336, pl. 6, fig. 17 (*Hercostomus*). Type-locality: Mexico, Guerrero. Distr. — Mexico.
- HEBES** Van Duzee, 1923b:111. Type-locality: Mexico, Sonora, Tepoca Bay. Distr. — Mexico.
- KEIFERI** Van Duzee, 1927c:146. Type-locality: Mexico, Lower California, Cedros I. Distr. — Mexico.
- KOVASCI** Parent, 1933a:251, figs. 9-12. Type-locality: Bolivia, Villa Montes. Distr. — Bolivia.
- LAEVIS** Becker, 1922:51. Type-locality: Paraguay, San Bernardino; Costa Rica, Surrubres. Distr. — Costa Rica, Paraguay.
- LEUCOPILUS** (Loew), 1857b:41, pl. 1, figs. 14-15 (*Gymnopternus*). Type-locality: "Surinam". Distr. — Surinam, Venezuela.
- LONGICORNIS** Van Duzee, 1931b:191, pl. 2, figs. 36-38. Type-locality: Panama, Barro Colorado I. and France Field. Distr. — Panama.
- MARITIMUS** Van Duzee, 1923:110. Type-locality: Mexico, Lower California, San Evaristo Ranch and Gonzales Bay. Distr. — Mexico.
- MICROPYGUS** Parent, 1931:13, pl. 2, figs. 44-45. Type-locality: Peru, Pichis. Distr. — Peru.
- MIXTUS** Parent, 1934a:269, pl. 69, figs. 24-26. Type-locality: Colombia, Gorgona I. Distr. — Colombia.
- MODESTUS** Parent, 1934a:270, pl. 69, fig. 27, pl. 70, fig. 28. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.

- NIGROTERMINALIS** Van Duzee, 1931d:10, figs. 7-9. Type-locality: ? Brazil. Distr. — ? Brazil.
- OBSCURUS** Van Duzee, 1931b:191, pl. 2, figs. 39-41. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- OEDIPUS** Becker, 1922:53, fig. 5. Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil.
- OPULENTUS** Van Duzee, 1930b:10, pl. 2, figs. 64-66. Type-locality: Chile, Castro. Distr. — Chile.
- OVATUS** Van Duzee, 1914b:436, pl. 18, figs. 5-6. Type-locality: U.S.A., Georgia. Distr. — U.S.A. (New York and Michigan s. to Florida), ? Costa Rica, ? Panama.
- PARAGUAYENSIS** Parent, 1931:13, pl. 2, figs. 46-48. Type-locality: Paraguay, Hohenau. Distr. — Paraguay.
- PARVULUS** Parent, 1930a:17, figs. 18-20. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil.
- PERUANUS** Becker, 1922:54. Type-locality: Peru, Callanga. Distr. — Peru.
- PICTIPES** Becker, 1922:54. Type-locality: Paraguay, San Bernardino. Distr. — Paraguay.
- PLUMICORNIS** Van Duzee, 1931c:25, fig. 29. Type-locality: "Pasagua" (? Nicaragua). Distr. — ? Nicaragua.
- PROPINQUUS** Wheeler, 1899:18, pl. 1, figs. 22-24. Type-locality: U.S.A., Florida. Distr. — U.S.A. (Massachusetts, Florida), ? South America.
- PUMILIO** Loew, 1872:90. Type-locality: U.S.A., Texas. Distr. — \*U.S.A. (Michigan and Maryland to Texas), Mexico.
- QUADRINOTATUS** Aldrich, 1902:81. Type-locality: Grenada I. Distr. — U.S.A. (Florida, Texas), West Indies.
- SIMPLEX** Van Duzee, 1929a:43. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- SORDIDUS** Van Duzee, 1933a:22, figs. 45-46. Type-locality: Guatemala, Pochuta, Santa Emilia. Distr. — Guatemala.
- SPINULIGER** Parent, 1933a:254, figs. 14-16. Type-locality: Bolivia, Chiquitos, San José; Argentina: Tapikiolé, Pilcomayo, and Lapango. Distr. — Bolivia, Argentina.
- STYLATUS** Becker, 1922:56. Type-locality: Peru, Callanga. Distr. — Peru.
- VENUSTUS** Aldrich, 1901:340, pl. 6, fig. 11. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico, Panama, Peru.
- VIRIDUS** Van Duzee, 1931d:11, fig. 10. Type-locality: Honduras, La Ceiba. Distr. — Honduras.

#### Genus PELASTONEURUS Loew

- Paracleius* Bigot, 1859:215, 227. Type-species, *Dolichopus heteroneurus* Macquart (mon.). See discussion under *Paracleius*.
- PELASTONEURUS** Loew, 1861a:36. Type-species, *vagans* Loew (Coquillett, 1910:586).
- Ref. — Van Duzee, 1923a, 1931b (keys).
- ACUTICAUDA** Van Duzee, 1929a:59, pl. 2, figs. 72-73. Type-locality: Guatemala, El Salto. Distr. — Guatemala.

- AEQUALIS** Van Duzee, 1927b:5. Type-locality: Puerto Rico, Adjuntas, Distr. — Puerto Rico.
- ARGENTIFER** Aldrich, 1896:313. Type-locality: St. Vincent I. Distr. — West Indies, Mexico, Costa Rica.
- BARBICAUDA** Van Duzee, 1923a:43. Type-locality: Mexico, Lower California, San Evaristo and Loreto. Distr. — Mexico.
- BEQUARTI** Van Duzee, 1933a:26, fig. 51. Type-locality: Guatemala, Guatemala, Moca. Distr. — Guatemala.
- BIGEMINATUS** Aldrich, 1901:338, pl. 6, fig. 13. Type-locality: Mexico, Veracruz, Atoyac. Distr. — Mexico.
- BIGUTTATUS** Becker, 1922:64, fig. 7. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- BILAMELLATUS** Van Duzee, 1931b:199. Type-locality: Panama, Corozal. Distr. — Panama.
- BILINEATUS** Van Duzee, 1931b:198, pl. 2, fig. 49. Type-locality: Panama, Barro Colorado I. Distr. — Panama.
- BRASILIENSIS** Van Duzee, 1931d:11, fig. 11. Type-locality: Brazil, Mato Grosso, Corumbá. Distr. — Brazil, Paraguay.
- CAERULEUS** Van Duzee, 1923a:37. Type-locality: Guatemala, Santa Lucia. Distr. — Guatemala. ..
- CANCIOI** Parent, 1933a:250, figs. 6-8. Type-locality: Argentina, Pilcomayo. Distr. — Argentina.
- COSTALIS** Van Duzee, 1923a:38, pl. 1, fig. 22. Type-locality: Mexico, Veracruz. Distr. — Mexico, Peru, Argentina.
- DECORUS** Parent, 1931:14, pl. 2, figs. 49-50. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru, Argentina.
- DIGITULUS** Becker, 1922:66. Type-locality: Paraguay: San Bernardino. Distr. — Paraguay.
- DORSALIS** Van Duzee, 1923a:42. Type-locality: Mexico, Baja California, San Evaristo. Distr. — Mexico.
- FASCIATUS** Röder, 1885:341. Type-locality: "Puerto Rico". Distr. — Puerto Rico.
- FLAVIPES** Schiner, 1868:219. Type-locality: "Brazil". Distr. — Brazil.
- FLORIDANUS** Wheeler, 1899:13, pl. 2, fig. 26. Type-locality: U.S.A., Florida. Distr. — U.S.A. (North Carolina to Texas), Costa Rica.
- FUSCIPENNIS** Van Duzee, 1929a:60. Type-locality: Guatemala, Los Amates. Distr. — Guatemala.
- FUSCITARSIS** Van Duzee, 1932a:14, fig. 9. Type-locality: Cuba, Soledad. Distr. — Cuba.
- HAMATUS** Aldrich, 1901:338, pl. 6, figs. 12-12a. Type-locality: Mexico, Mexico City. Distr. — Mexico.
- INSULANUS** Van Duzee, 1923a:39, pl. 1, fig. 20. Type-locality: Cuba, Havana. Distr. — Cuba.
- IRRASUS** (Walker), 1849:667 (*Dolichopus*). Type-locality: U.S.A., Florida. Distr. — U.S.A., ? Central America. Described from female.
- LORIFER** Parent, 1931:14, pl. 2, figs. 51-52. Type-locality: Peru, mouth of R. Pachitea. Distr. — Peru.
- LUGUBRIS** Loew, 1861a:38. Type-locality: U.S.A., New York. Distr. — U.S.A. (Vermont and Michigan to Florida and Texas), Mexico.





- LUTEIFACIES Parent, 1934b:129, figs. 33-34. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico.
- MACULITIBIA Van Duzee, 1929a:58, pl. 2, fig. 71. Type-locality: Guatemala, Antigua, El Salto. Distr. — Guatemala.
- MEXICANUS (Bigot), 1888c:xxx (*Poecilobothrus*). Type-locality: "Mexico". Distr. — Mexico.
- NIGRIFACIES Van Duzee, 1923a:32, pl. 1, figs. 8-9. Type-locality: Guatemala, Los Amates. Distr. — Guatemala.
- NIGRITIBIA Parent, 1934a:271, pl. 70, figs. 30-31. Type-locality: Colombia, Quatiquia R., Villavicencio. Distr. — Colombia.
- NITIDUS Van Duzee, 1931b:197, pl. 2, fig. 48. Type-locality: Panama, Barro Colorado I. Distr. — Panama, Costa Rica.
- OCHREIFACIES Van Duzee, 1931d:13, fig. 13. Type-locality: Brazil, Mato Grosso, Corumbá. Distr. — Brazil.
- PECTINATUS Van Duzee, 1929a:61, pl. a, fig. 74. Type-locality: Guatemala, La Providencia, Obispo. Distr. — Guatemala.
- PLUMICAUDA Van Duzee, 1931d:12, fig. 12. Type-locality: Paraguay, Concepción. Distr. — Paraguay.
- PLUMOSUS Parent, 1934b:130, figs. 35-36. Type-locality: Costa Rica, La Caja. Distr. — Costa Rica.
- PUNCTIPENNIS (Say), 1829:170 (*Medeterus*). Type-locality: "Mexico". Distr. — Mexico, Costa Rica, Bolivia.
- variegatus* Aldrich, 1901, pl. 6, fig. 14. Type-locality: Mexico, Orizaba.
- REMISSUS Parent, 1939:146, fig. 10-11. Type-locality: Costa Rica, Hamburg Farm. Distr. — Costa Rica.
- SEMIPLUMATUS Becker, 1922:69, figs. 10-12. Type-locality: "Amerika". Distr. — America.
- STRIATUS Parent, 1928:183, figs. 55-56. Type-locality: Brazil, São Paulo, Santos. Distr. — Brazil.
- TEANIATUS Becker, 1922:70. Type-locality: St. Jean I. Distr. — Virgin Islands, Dominica I.
- TRAPEZOIDES Becker, 1922:71. Type-locality: Paraguay, Asunción, Villa Morra. Distr. — Paraguay.
- TURBIDUS Becker, 1922:71, fig. 13. Type-locality: Bolivia, Mapiri, Chimate and Sarampiuni; Cillutincara. Distr. — Bolivia.
- UMBRIPICTUS Becker, 1922:73. Type-locality: U.S.A., Carolina, Colombia, Baranquilla. Distr. — U.S.A., Mexico, Belize, Colombia.
- UNGUICULATUS (Aldrich), 1896:310, pl. 11, fig. 101, pl. 12, fig. 116 (*Poecilobothrus*). Type-locality: St. Vincent I. Distr. — West Indies, Mexico, Costa Rica, Argentina.
- VAGANS Loew, 1861a:39. Type-locality: U.S.A., Middle States. Distr. — Canada, Alaska, U.S.A., ? Central America.
- longilamellatus* Parent, 1929b:180, figs. 13-14. Type-locality: U.S.A., Texas; Georgia.
- VANDUZEEI Parent, 1931:14, pl. 2, fig. 53, pl. 3, fig. 54. Type-locality: Peru, Paso de Lares. Distr. — Peru.
- VERSICOLOR Van Duzee, 1932a:13, figs. 10-11. Type-locality: Cuba, Soledad. Distr. — Cuba.





### Genus PROARCHUS Aldrich

- Phylarchus* Aldrich, 1901:342 (preocc. Simon, 1888). Type-species, *tripartitus* Aldrich (mon.).  
PROARCHUS Aldrich, 1910:100 (nom. nov. for *Phylarchus* Aldrich). Type-species, *Phylarchus tripartitus* Aldrich (aut.).  
TRIPARTITUS (Aldrich), 1901:342, pl. 6, fig. 16 (*Phylarchus*). Type-locality: Mexico, Veracruz. Distr. — Mexico, Panama.

### Genus SARCIONUS Aldrich

- SARCIONUS Aldrich, 1901:341. Type-species, *Pelastoneurus lineatus* Aldrich (orig. des.).  
Ref. — Van Duzee, 1931b, 1934b (keys).  
ACUTISPINA Van Duzee, 1931b:196, pl. 2, figs. 43-44. Type-locality: Panama, Barro Colorado I. Distr. — Panama.  
CURRANI Van Duzee, 1931b:195. Type-locality: Panama, Barro Colorado I. Distr. — Panama.  
FLAVICOXA Aldrich, 1901:341, pl. 6, figs. 15-15a. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico.  
INTERMEDIUS Van Duzee, 1931b:194, pl. 2, fig. 42. Type-locality: Panama, Barro Colorado I. Distr. — Panama.  
LINEATUS (Aldrich), 1896:312 (*Pelastoneurus*). Type-locality: St. Vincent I. Distr. — West Indies, Mexico.  
MACULATUS Van Duzee, 1929a:57. Type-locality: Guatemala, Quirigua. Distr. — Guatemala, South America.  
MACULIPENNIS Van Duzee, 1934b:373, pl. 1, figs. 9-10. Type-locality: Guyana, Kartabo. Distr. — Guyana.  
OBTUSUS Van Duzee, 1933a:24, fig. 49. Type-locality: Guatemala, Gualalón, Moca. Distr. — Guatemala.  
PECTINICAUDA Van Duzee, 1934b:373, pl. 1, fig. 8. Type-locality: Guyana, Kartabo. Distr. — Guyana.  
PUSILLUS (Macquart), 1846:249, pl. 11, fig. 18 (*Dolichopus*). Type-locality: "Brazil". Distr. — Brazil.  
ROTUNDICORNIS Van Duzee, 1931b:196, pl. 2, figs. 45-46. Type-locality: Panama, Barro Colorado I. Distr. — Panama.

### Genus STENOPYGIUM Becker

- STENOPYGIUM Becker, 1922:75. Type-species, *nubeculum* Becker (mon.).  
NUBECULUM Becker, 1922:75, figs. 17-18. Type-locality: Bolivia, Mapiri, Lorenzopata; Peru: Pichis, Callanga.

### Genus TACHYTRECHUS Haliday

- Ammobates* Stannius, 1831:33, 268 (preocc. Latreille, 1809). Type-species, *notatus* Stannius (Rondani, 1856:143).  
*Hammobates*, error or emend.  
TACHYTRECHUS Haliday, 1851:173 (nom. nov. for *Ammobates* Stannius). Type-species, *Ammobates notatus* Stannius (aut.). *Tachytrechus* of Stannius, 1831, is a nomem nudum.

*Tetrechus*, error

*Gongrophora* Philippi, 1875:86. Type-species, *medinae* Philippi (mon.).  
N. SYN.

*Polymedon* Osten Sacken, 1877:317. Type-species, *flabellifer* Osten  
Sacken (mon.). N. SYN.

*Macellocerus* Mik, 1878, ? 3. Type-species, *Tachytrechus moechus* Loew  
(orig. des.).

*Psilischium* Becker, 1922:93. Type-species, *laevigatum* Becker, (mon.).  
N. SYN.

A very broad genus concept is adopted here, including not only the  
genera listed but also many species originally described in *Paraclius*. The  
only species in the complex that do seem reasonably distinctive are those  
which have been placed in *Macellocerus*. If the latter group is ever re-  
cognized as distinct, the name, *Gongrophora* Philippi, has priority. Ref.  
— Greene, 1922; Harmston & Knowlton, 1940; Van Duzee 1927d (keys).

ABDOMINALIS (Aldrich), 1902:78 (*Paraclius*). Type-locality: Grenada I.  
Distr. — West Indies, Brazil, Peru, Bolivia. N. COMB.

ALBINUS (Becker), 1922:43, fig. 1 (*Paraclius*). Type-locality: Bolivia,  
Mapiiri, Sarampiuni. Distr. — Bolivia. N. COMB.

ALBITALUS (Van Duzee), 1929a:42 (*Paraclius*). Type-locality: Panama,  
Barro Colorado I. Distr. — Panama. N. COMB.

ALBITERMINALIS Van Duzee, 1930b:66, pl. 2, figs. 70-71. Type-locality: Ar-  
gentina, Mendoza. Distr. — Argentina.

ALBONOTATUS (Loew), 1864:102 (*Paraclius*). Type-locality: U.S.A., Loui-  
siana. Distr. — U.S.A., Central America.

ALBOPILOSUS (Van Duzee), 1931d:7, fig. 4 (*Paraclius*). Type-locality:  
Brazil, Mato Grosso, Chapada. Distr. — Brazil. N. COMB.

ALDRICHI (Van Duzee), 1929a:45 (*Paraclius*). Type-locality: Guatemala,  
Alta Vera Paz, Tamau. Distr. — Guatemala. N. COMB.

AMERICANUS (Schiner), 1868:220 (*Sybistroma*). Type-locality: "Brazil".  
Distr. — Brazil. N. COMB. As described the face is like *Tachy-  
trechus* and unlike *Sybistroma*.

ANGUSTIPENNIS Loew, 1862:213. Type-locality: U.S.A., District of Colum-  
bia. Distr. — U.S.A., Mexico, Costa Rica, Peru, Chile.

ANTENNATUS Van Duzee, 1930b:68, pl. 2, figs. 73-74. Type-locality: Argen-  
tina, Mendoza. Distr. — Argentina

ARGENTATUS (Aldrich), 1901:334, pl. 6, fig. 7 (*Polymedon*). Type-locali-  
ty: Mexico, Morelos. Distr. — Mexico. N. COMB.

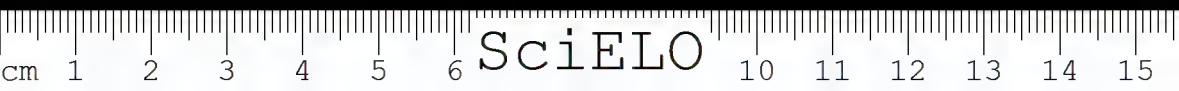
ARGENTIMANUS (Van Duzee), 1929a:48 (*Paraclius*). Type-locality:  
Guatemala, La Providencia, Obispo. Distr. — Guatemala, Bra-  
zil. N. COMB.

ARGENTIPES Van Duzee, 1930b:7, pl. 2, figs. 71-72. Type-locality: Argen-  
tina, Bariloche. Distr. — Argentina.

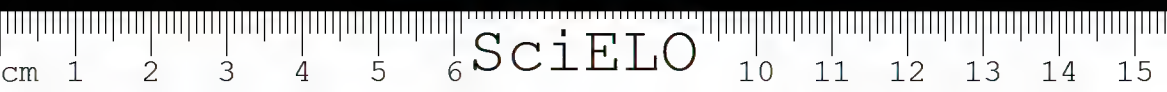
ARGYROPIUS Becker, 1922:79. Type-locality: America, ? Chile. Distr. —  
America.

BELLUS (Aldrich), 1902:81 (*Paraclius*). Type-locality: Grenada I. Distr.  
— Lesser Antilles. N. COMB.

BIPUNCTATUS (Macquart), 1842:186 (*Dolichopus*). Type-locality: Chile.  
Distr. — Chile.

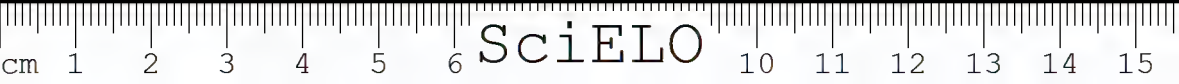


- BOLIVIENSIS Parent, 1931:15, pl. 3, figs. 57-58. Type-locality: Bolivia, Sorata. Distr. — Bolivia.
- CALLOSUS (Becker), 1922:45 (*Paraclius*). Type-locality: Peru, Callanga; Venezuela. Distr. — Ecuador, Peru, Venezuela. N. COMB.
- CILIFERUS (Becker), 1922:45, fig. 2 (*Paraclius*). Type-locality: Peru, Urubamba, Umahuankiali. Distr. — Peru. N. COMB.
- CONFUSUS Parent, 1931:15 (Becker, 1922: fig. 28, as *vorax*). Type-locality: "Peru". Distr. — Peru.
- COSTALIS (Becker), 1922:46 (*Paraclius*). Type-locality: Paraguay, San Bernardino. Distr. — Paraguay. N. COMB.
- EXCISICORNIS (Parent), 1930a:16, figs. 15-17 (*Paraclius*). Type-locality: Brazil, Pará, Belém. Distr. — Brazil. N. COMB.
- FACIALIS (Becker), 1922:48 (*Paraclius*). Type-locality: "Brazil". Distr. — Brazil. N. COMB.
- FEMORALIS (Becker), 1922:48 (*Paraclius*). Type-locality: "Brazil". Distr. — Brazil. N. COMB.
- FORMOSUS (Parent), 1931:13, pl. 2, figs. 42-43 (*Paraclius*). Type-locality: Peru, Paso de Lares. Distr. — Peru. N. COMB.
- FRONTALIS (Van Duzee), 1929a:49 (*Paraclius*). Type-locality: Guatemala, Alta Vera Paz, Tamau. Distr. — Guatemala. N. COMB.
- FUSCICORNIS (Aldrich), 1902:79 (*Paraclius*). Type-locality: Grenada I. Distr. — Lesser Antilles. N. COMB.
- FUSCIPENNIS (Van Duzee), 1931d:9, fig. 5 (*Paraclius*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil. N. COMB.
- FUSIFORMIS (Becker), 1922:49, figs. 3-4 (*Paraclius*). Type-locality: Peru, Urubamba, Umahuankiali. Distr. — Panama, Peru. N. COMB.
- GUANICA Curran, 1925: 4. Type-locality: Guyana, Kaieteur. Distr. — Guyana.
- HUMERALIS (Aldrich), 1901:340, pl. 6, fig. 10 (*Paraclius*). Type-locality: Mexico, Veracruz, Atoyac. Distr. — Mexico, Costa Rica. N. COMB.
- INTERMEDIUS Becker, 1922:80, fig. 20. Type-locality: Chile: Arica, Tacna, Quillota, and Valparaíso; Peru: Sicuani, Calca, Cuzco, Urubamba, Uroya I., and Tarma; Bolivia: Titicaca; Puerto Rico. Distr. — Puerto Rico, Peru, Bolivia, Chile, Argentina.
- LAEVIGATUM (Becker), 1922:95, figs. 32-36a (*Psilischium*). Type-locality: Peru, Paso de Lares. Distr. — Peru. N. COMB.
- LATIFACIES (Becker), 1922:51 (*Paraclius*). Type-locality: Peru, Callanga; Paraguay, San Bernardino. Distr. — Peru, Paraguay. N. COMB.
- LATIPES (Aldrich), 1896:311, pl. 12, fig. 111 (*Hercostomus*). Type-locality: St. Vincent I. Distr. — West Indies. N. COMB.
- LATITARSIS Becker, 1922:81. Type-locality: Chile, Palca. Distr. — Chile.
- LATITIBIUS (Van Duzee), 1929a:46, pl. 2, fig. 55 (*Paraclius*). Type-locality: Guatemala, Alta Vera Paz, Tamau. Distr. — Guatemala. N. COMB.
- LINDNERI Parent, 1933a:255, figs. 17-18. Type-locality: Bolivia, Villa Montes. Distr. — Bolivia.
- LONGICILIATUS (Van Duzee), 1931b:193 (*Paraclius*). Type-locality: Panama, Barro Colorado I. Distr. — Panama. N. COMB.
- LONGIFACIES (Becker), 1922:89 (*Polymedon*). Type-locality: Chile, Palca. Distr. — Chile. N. COMB.
- LUTEIFACIES (Parent), 1928:156, figs. 5-7 (*Polymedon*). Type-locality: Costa Rica, La Caja. Distr. — Costa Rica. N. COMB.





- MEDINAE (Philippi), 1875:86 (*Gongrophora*). Type-locality: Chile, Santiago. Distr. — Chile. N. COMB. Present rules of nomenclature would allow rejection of the name except for its mention by Porter (1929).
- perplexus* Parent, 1931:12, pl. 2, figs. 39-41 (*Macellocerus*). Type-locality: Chile, Quillota. N. SYN.
- MELANOCHEIRUS Van Duzee, 1930b:67. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina.
- NIGRIPES (Aldrich), 1902:78 (*Paraclius*). Type-locality: Grenada I. Distr. — Grenada I., Peru. N. COMB.
- NIMIUS (Aldrich), 1901:334, pl. 6, figs. 8-9 (*Polymedon*). Type-locality: Mexico, Guerrero. Distr. — U.S.A. (Idaho), Mexico, Guatemala, South America. N. COMB.
- nigricornis* Van Duzee, 1929a:53, pl. 2, figs. 62-67 (*Polymedon*). Type-locality: Guatemala, Alta Vera Paz, Tamau.
- NOTATUS (Van Duzee), 1929a:56 (*Polymedon*). Type-locality: Guatemala, Alta Vera Paz, Polochic R. Distr. — Guatemala.
- OBTECTUS Becker, 1922:82, figs. 21-24. Type-locality: Chile, Arica. Distr. — Chile.
- PARENTI Robinson, nom. nov. for *Polymedon latitarsis* Parent. Type-locality: unknown. Distr. — America.
- latitarsis* Parent, 1929b:182, figs. 18-21 (*Polymedon*; preocc. Becker, 1922). Type-locality: unknown.
- PARTITUS (Van Duzee), 1929a:54, pl. 2, figs. 68-69 (*Polymedon*). Type-locality: Guatemala, Antigua, El Salto. Distr. — Guatemala. N. COMB.
- PARVICAUDA (Van Duzee), 1929a:44 (*Paraclius*). Type-locality: Guatemala, La Providencia, Siquinala. Distr. — Guatemala. N. COMB.
- PLATYPUS Parent, 1931:16, pl. 3, figs. 59-61. Type-locality: Peru, Mamara. Distr. — Peru.
- POTENS (Parent), 1934a:271, pl. 70, fig. 29 (*Paraclius*). Type-locality: Colombia, Gorgona I. Distr. — Colombia. N. COMB.
- PRESSITIBA (Parent), 1931:14, pl. 3, figs. 55-56 (*Polymedon*). Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia. N. COMB.
- PTEROPODUS Schiner, 1868:220. Type-locality: "Brazil". Distr. — Brazil.
- ROBUSTUS (Becker), 1922:55 (*Paraclius*). Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia. N. COMB.
- RUBIGINOSUS (Van Duzee), 1929a:55, pl. 2, fig. 70 (*Polymedon*). Type-locality: Guatemala, Alta Vera Paz, Tamau. Distr. — Guatemala. N. COMB.
- SETOSUS (Van Duzee), 1931b:189, fl. 2, fig. 32 (*Paraclius*). Type-locality: Panama, Bruja Point. Distr. — Panama. N. COMB.
- SHANNONI (Van Duzee), 1930b:69, pl. 3, figs. 35-36 (*Polymedon*). Type-locality: Peru, Lima, Verrugas Cañon. Distr. — Peru. N. COMB.
- SUBCOSTATUS (Van Duzee), 1931b:188, pl. 2, figs. 29-30 (*Paraclius*). Type-locality: Panama, Barro Colorado I. Distr. — Panama. N. COMB.
- SUBPUBESCENS (Becker), 1922:56, fig. 6 (*Paraclius*). Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia. N. COMB.





- SUPERBUS** (Aldrich), 1896:318, pl. 11, fig. 103, pl. 12, figs. 113, 118-119 (*Polymedon*). Type-locality: St. Vincent I. Distr. — Lesser Antilles. N. COMB.
- TRANSVERSUS** (Van Duzee), 1929a:52, pl. 2, fig. 61 (*Polymedon*). Type-locality: Guatemala, Zacapa, El Jicara. Distr. — Mexico, Guatemala. N. COMB.
- TRIANGULARIS** (Aldrich), 1901:335 (*Polymedon*). Type-locality: Mexico, Morelos. Distr. — Mexico. N. COMB.
- TYLOPHORUS** (Schiner), 1868:219 (*Paracleius*). Type-locality: "South America". Distr. — Brazil. N. COMB.

### Subfamily HYDROPHORINAE

#### Genus APHROSYLUS Haliday

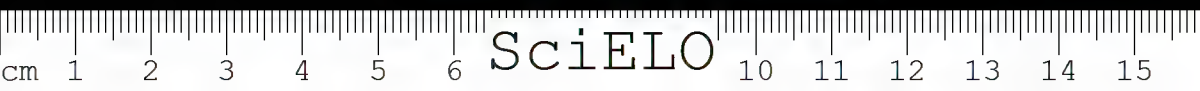
- APHROSYLUS** Haliday, 1851:220. Type-species, *raptor* Haliday (Coquillett, 1910:508).
- Aphrosylus*, subg. *Paraphrosylus* Becker, 1922:127. Type-species, *praedator* Wheeler (Foote, Coulson, & Robinson, 1965:509).  
Ref. — Wheeler, 1897 (revision, larvae); Van Duzee, 1924c (key); Saunders, 1928; Wirth & Stone, 1956 (biology).
- FUMIPENNIS** (Van Duzee), 1924c:76 (*Paraphrosylus*). Type-locality: Mexico, Gulf of California, Esteban I. Distr. — Mexico.
- TENUIPES** (Van Duzee), 1924c:77 (*Paraphrosylus*). Type-locality: Mexico, Gulf of California. Distr. — Mexico.

#### Genus CYMATOPUS Kertész

- CYMATOPUS** Kertész, 1901:408. Type-species, *tibialis* Kertész (mon.).
- Vanduzeeia* Parent, 1934a:257. Type-species, *cheesmani* Parent (orig. des.).
- I have seen material of additional undescribed species from Panama and the Lesser Antilles. Ref. — Parent, 1935 (key).
- CHEESMANI** (Parent), 1934a:258, pl. 67, figs. 1-4 (*Vanduzeeia*). Type-locality: Ecuador, Galápagos I. Distr. — Ecuador (Galápagos), Costa Rica (Cocos I.)
- SETOSUS** (Curran), 1932:352 (*Aphrosylus*). Type-locality: Ecuador, Galápagos I. Distr. — Ecuador (Galápagos).

#### Genus HYDROPHORUS Fallén

- HYDROPHORUS** Fallén, 1823:2. Type-species, *jaculus* Fallén (Macquart, 1827a:249; 1827:37).
- Aphrozeta* Perris, 1847:491. Type-species, *semiglaucula* Perris = *viridis* (Meigen) (Coquillett, 1910: 508).
- In a letter, Dr. Hans Ulrich of Munich has called my attention to the fact that *Hydrophorus jaculus* Fallén is a *Medetera*. It is hoped that a later typification can be conserved that will be in accordance with the current concept of the genus.
- Ref. — Van Duzee, 1930b (key).
- ALBOPICTUS** Parent, 1931:16, pl. 3, figs. 62-63. Type-locality: Chile, Punta Arenas. Distr. — Chile.
- COGNATUS** Parent, 1931:16, pl. 3, fig. 64. Type-locality: Argentina, Chubut, Madryn Territ. Distr. — Argentina.



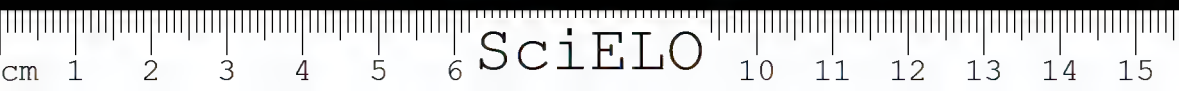
- DIMINUATUS Becker, 1922:109. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.
- ELEVATUS Becker, 1922:109, figs. 40-41. Type-locality: Peru: Cuzco, Puno, Titicaca, and Juliaca; Chile: Coquimbo, and Arica. Distr. — Peru, Chile.
- KUSCHELI Harmston, 1955:35. Type-locality: Chile, Juan Fernández, Masatierra. Distr. — Chile (Juan Fernández).
- LATICORNIS Becker, 1922:111, figs. 42-43. Type-locality: Chile, Magellan Straits; Argentina, San Julian. Distr. — Chile, Argentina.
- NERVOSUS Becker, 1922:112. Type-locality: Chile, Magellan Straits. Distr. — Chile.
- OCHRIFACIES Van Duzee, 1930b:15. Type-locality: Chile, Castro. Distr. — Chile.
- PATAGONICUS Van Duzee, 1931d:6. Type-locality: Argentina, Patagonia. Distr. — Argentina.
- POLIOGASTER (Philippi), 1865:780 (*Hydatostega*). Type-locality: Chile, Santiago. Distr. — Chile (Santiago, Juan Fernández), Uruguay.
- infuscatus* Bigot, 1890:294. Type-locality: "Chile".
- PRAECOX (Lehmann), 1822:42 (*Dolichopus*). Type-locality: "Germany". Distr. — Europe, southern Canada, U.S.A., Chile.
- cinereus* Perris, 1847:492 (*Aphrozeta*). Type-locality: "France". Reported from South America.
- REGULARIS Becker, 1922:114. Type-locality: Argentina, San Julian. Distr. — Argentina.
- SOLITARIUS d'Andretta, 1952:267, figs. 1-4. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- TITICACA Becker, 1922:114, figs. 44-46. Type-locality: Bolivia, Guaqui, Lake Titicaca. Distr. — Bolivia.

#### Genus LIANCALUS Loew

- Anoplomerus* Rondani, 1856:141 (preocc. Dejean, 1835). Type-species, *Musca regius* Fabricius (orig. des.) = *virens* (Scopoli).
- LIANCALUS Loew, 1857a:22 (nom. nov. for *Anoplomerus* Rondani). Type-species, *Musca regius* Fabricius (aut.) = *virens* (Scopoli).
- GENUALIS Loew, 1861c:70. Type-locality: U.S.A., Middle States. Distr. — Canada (Quebec), U.S.A. (Minnesota to Georgia), Mexico (Guerrero). The Mexican specimen differs from eastern North American material by a few characters including the presence of a row of small acrostichal setae.

#### Genus OEDEMATOPUS Van Duzee

- OEDEMATOPUS Van Duzee, 1929a:38. Type-species, *crassitibia* Van Duzee (mon.).  
Ref. — Van Duzee, 1930b (key).
- CRASSITIBIA Van Duzee, 1929a:39, pl. 2, figs. 77-78. Type-locality: Guatemala, Antigua, El Salto. Distr. — Mexico, Guatemala.
- SHANNONI Van Duzee, 1930b:72, pl. 3, figs. 28-33. Type-locality: Peru, Lima, Verrugas Cañon. Distr. — Peru.
- TRANSVERSUS Van Duzee, 1930b:74, pl. 3, fig. 34. Type-locality: Peru, Lima, Verrugas Cañon. Distr. — Peru.
- VIDUA (Becker), 1922:118, fig. 47 (*Liancalus*). Type-locality: Peru, Pichis. Distr. — Peru.



## Genus SYNTOMONEURUM Becker

- SYNTOMONEURUM Becker, 1922:123. Type-species, *alatum* Becker (mon.).  
*Syntormoneurum*, error or emend.  
 Ref. — Parent, 1954 (key).  
 ALATUM Becker, 1922:124, fig. 50. Type-locality: Peru: Pichís, Urubamba,  
 Umahuankiali. Distr. — Peru.  
 ANALE Parent, 1954:226, figs. 7-10. Type-locality: Colombia, Boyaca,  
 Muzo. Distr. — Colombia.  
 BECKERI Parent, 1931:17. Type-locality: Peru, Urubamba, Umahuankiali.  
 Distr. — Peru.

## Genus THINOPHILUS Wahlberg

- THINOPHILUS Wahlberg, 1844:37 (also Schiödt, 1844:44). Type-species,  
*Rhaphium flavipalpe* Zetterstedt (mon.).  
 Ref. — Van Duzee, 1926b (key).  
 ARMIGER Van Duzee, 1926b:43. Type-locality: U.S.A., Florida. Distr. —  
 U.S.A. (North Carolina to Texas), Mexico (Chiapas).  
 DEPRESSUS Van Duzee, 1926b:39. Type-locality: Mexico, Baja California.  
 Distr. — U.S.A. (Utah), Mexico.  
 LONGIVENTRIS Van Duzee, 1926b:40. Type-locality: Mexico, Baja Califor-  
 nia and Sonora. Distr. — Mexico.  
 MEXICANUS Van Duzee, 1926b:38. Type-locality: Mexico, Tepoca. Distr.  
 — Mexico.  
 OCHRIFACIES Van Duzee, 1924a:101. Type-locality: U.S.A., New York.  
 Distr. — Canada (Nova Scotia), U.S.A. (Maine to Florida), West  
 Indies, Mexico (Chiapas).  
 PANAMENSIS Van Duzee, 1929a:32, pl. 2, fig. 44. Type-locality: Panama,  
 Old Panama. Distr. — Panama.

## Unplaced Species of Dolichopodidae

- BASALIS Philippi, 1865:775 (*Chrysotus*). Type-locality: Chile, Valdivia.  
 COLLINUS Philippi, 1865:779 (*Dolichopus*). Type-locality: Chile, "in colli  
 S. Cristoval dicto cepi".  
 CONCINNARIUS Say, 1829:168 (*Chrysotus*). Type-locality: "Mexico".  
 ?*Diaphorus* (Loew, 1864).  
 CONCOLOR Philippi, 1865:777 (*Dolichopus*). Type-locality: Chile, Santiago  
 and Valdivia.  
 DUBIOSUS Philippi, 1865:776 (*Dolichopus*). Type-locality: Chile, Valdivia.  
 ? *Sympycnus* (Edwards in Van Duzee, 1930b).  
 FLAVIFRONS Philippi, 1865:777 (*Dolichopus*). Type-locality: Chile, Valdi-  
 via. ? Acalyptrate (Edwards in Van Duzee, 1930b).  
 HEYDENI Wiedemann, 1830:230 (*Dolichopus*). Type-locality: "Brazil".  
 HORTICOLA Philippi, 1865:775 (*Dolichopus*). Type-locality: Chile, Santia-  
 go. ? *Sympycnus* (Edwards in Van Duzee, 1930b).  
 INORNATUS Philippi, 1865:779 (*Dolichopus*). Type-locality: Chile, Valdi-  
 via. ? Acalyptrate (Edwards in Van Duzee, 1930b).  
 LONGIPES Philippi, 1865:778, pl. 28, fig. 51 (*Dolichopus*). Type-locality:  
 Chile, Valdivia. ? *Sympycnus* (Edwards in Van Duzee, 1930b).



PUNCTIGER Philippi, 1865:779 (*Dolichopus*). Type-locality: Chile, Valdiviva. ? *Tachytrechus* (Edwards in Van Duzee, 1930b).

#### LITERATURE CITED

ALDRICH, J. M.

1893. New genera and species of Psilopinae. *Kans. Univ. Quart.* 2:47-50.  
1894. New genera and species of Dolichopodidae. *Kans. Univ. Quart.* 2:151-157.  
1896. Dolichopodidae. Pp. 309-345, pl. 12, figs. 108-119. In Williston, S. W., On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London*, 1896:253-446, pls. 8-14.  
1901. Supplement. Dolichopodidae. Pp. 333-366, pl. 6, figs. 7-24. In Godman, F. D., and Salvin, O., eds., *Biologia Centrali-Americana. Zoologia-Insecta-Diptera*, Vol. 1, 378 pp., 6 pls. London.  
1902. Dolichopodidae of Grenada, W. I. *Kans. Univ. Sci. Bul.* 1:75-95, pl. 4.  
1904. A contribution to the study of American Dolichopodidae. *Trans. Amer. Ent. Soc.* 30:269-286.  
1910. A decennial confession. *Canad. Ent.* 42:99-101.  
1932. New Diptera, or two-winged flies, from America, Asia, and Java, with additional notes. *Proc. U.S. Natl. Mus.* 81(9):1-28, 2 figs., 1 pl.  
1933. Notes on Diptera, No. 6. *Proc. Ent. Soc. Wash.* 35:165-170.

D'ANDRETTA, M. A. V.

1952. Descrição de uma nova espécie de *Hydrophorus* (Diptera, Dolichopodidae). *Pap. Av. Dep. Zool. Sec. Agric.*, S. Paulo 10:267-270, figs. 1-4.

BECKER, T.

1919. Diptères. Brachycères. *Miss. du Serv. Géogr. de l'Armée mesure d'un Arc Mérid. Equat. en Amer. du Sud* 10(2):163-215, pls. 14-17.  
1922. Dipterologische Studien. Dolichopodidae. B. Nearktische und neotropische Region. *Abhandl. Zool.-Bot. Gesell. Wien*, (1921) 13(1):1-394, 147 figs.

BIGOT, J. M. F.

1859. Essai d'une classification générale et synoptique de l'ordre des Insectes Diptères. VIIe. *Ann. Soc. Ent. de France*, (3) 7:201-231  
1888a. Diptères. *Mission scientifique du Cap Horn. 1882-1883. Zoologie, Insectes* 6:1-45, pls. 1-4.  
1888b. (Notes critiques sur les Diptères). *Ann. Soc. Ent. de France*, (6) 8(Bul.):xxiv.  
1888c. (Diagnoses d'espèces nouvelles de Dolichopodi). *Ann. Soc. Ent. de France* (6) 8(Bul.):xxix-xxx.  
1890. Diptères nouveaux ou peu connus. 36e partie, XLV: Dolichopodi. Essai d'une classification générale. *Ann. Soc. Ent. de France*, (6) 10:261-296.





BEËTHES, J.

1919. Cueillette d'insectes au Rio Blanco. *Rev. Chil. Hist. Nat.* 23:40-44, illus.

COQUILLET, D. W.

1902. New orthorrhous Diptera from Mexico and Texas. *Jour. N. Y. Ent. Soc.* 10:136-141.  
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Natl. Mus.* 37:499-647.

CURRAN, C. H.

1925. New Diptera in the American Museum of Natural History. *Amer. Mus. Novitates* 176: 1-10, 2 figs.  
1928. In C. C. Gowdey: *Catalogus insectorum Jamaicensis*. Appendix. *Ent. Bull. Dept. Agric. Jamaica* 4(3):1-30.  
1932. The Norwegian zoological expedition to the Galapagos Islands, 1925, conducted by Alf Wooleback. IV. Diptera (excl. of Tipulidae and Culicidae). *Nyt Mag. Naturvidensk.*, Oslo 71:347-366.  
1934. *The families and genera of North American Diptera*, 512 pp., 2 pls. New York.  
1942. American Diptera. *Bull. Amer. Mus. Nat. Hist.* 80:51-84.

CURTIS, J.

1835. *British entomology: Being illustrations and descriptions of the genera of insects found in Great Britain and Ireland*. Vol. 12, pls. 530-577. London.

DE LEON, D.

1935. A study of *Medetera aldrichii* Wh. (Diptera-Dolichopodidae), a predator of the mountain pine beetle (*Dendroctonus monticolae* Hopk., Coleo-Scolytidae). *Ent. Amer.* 15:59-91, pls. 4-7.

DYTE, C. E.

1967. Some distinctions between the larvae and pupae of the Empididae and Dolichopodidae (Diptera). *Proc. Roy. Ent. Soc. London* (A) 42(7-9):199-128.

ENDERLEIN, G.

1912. Zur Kenntnis aussereuropäischer Dolichopodiden. I. Tribus *Psilopodini*. *Zool. Jahrb., Suppl.* XV, 1:367-408.

FABRICIUS, J. C.

1775. *Systema entomologiae, sistens insectorum classes, ordines, genera, species adiectis synonymis, locis, descriptionibus, observationibus*. 832 pp. Flensburgi et Lipsiae.  
1805. *Systema antliatorum secundum ordines, genera, species*, 373 + 30 pp. Brunsvigae.

FALLÉN, C. F.

1823. *Monographia Dolichopodum Sueciae*. Pp. 1-16, 17-24. Lundae.

FISCHER VON WALDHEIM, G.

1819. *Programme d'invitation à la séance publique de la Société Impériale des Naturalistes, qui aura lieu le 15 Décembre, contenant une notice d'une mouche carnivore.* 11 pp., 1 pl. Moscou.

FOOTE, R. H., COULSON, J. R., AND ROBINSON, H.

1965. Family Dolichopodidae, pp. 482-530 in Stone, A., et. al., eds.: *A Catalog of the Diptera of America North of Mexico. U.S. Dept. Agric. Agriculture Handbook 276:1696 pp.*

FREITAS, J. F. T. DE & LOPES, H. DE S.

1941. Sobre uma nova espécie Brasileira do gênero "*Condylostylus*" Bigot (Diptera: Dolichopidae). *Rev. Brasil. Biol.*, 1(1):27-30, figs. 1-25.

FREY, R.

1928. Beiträge zur Kenntnis der exotischen Dolichopodiden. *Notulae Ent.* 8:17-23, fig. 1.

GERSTÄCKER, A.

1864. Uebersicht der in der Umgegend Berlins bis jetzt beobachteten Dolichopoden. *Stettin. Ent. Ztg.* 25:20-48.

GREENE, C. T.

1922. Synopsis of the North American flies of the genus *Tachytrechus*. *Proc. U.S. Natl. Mus.* 60(17):1-21. 1 pl.

GUÉRIN-MÉNEVILLE, F. E.

1831. Pls. 20-21. In Duperrey, L. I., ed., *Voyage autour du monde sur la corvette de sa majesté La Coquille. Zoologie, Atlas, Insectes*, 21 pls. Paris.

HALIDAY, A. H.

1851. Family XXI. Dolichopidae. Pp. 144-221. In Walker F., Stainton, H. T., and Wilkinson, S. J., *Insecta Britannica. Diptera Vol. 1*, 314 pp., 10 pls. London.

HARMSTON, F. C.

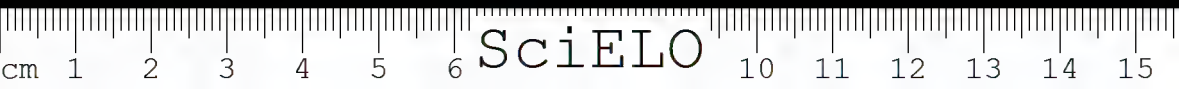
1952. New species of Dolichopodidae in the U.S. National Museum (Diptera). *Proc. Ent. Soc. Wash.* 54:281-294.  
1955. Los Insectos de las Islas Juan Fernandez, 17. Dolichopodidae (Diptera). *Rev. Chil. Ent.* 4:35-38.

HARMSTON, F. C. & KNOWLTON, G. F.

1940. *Tachytrechus* studies (Dolichopodidae, Diptera). *Canad. Ent.* 72:111-115, 5 figs.

JOHNSON, C. W.

1924. Diptera of the Williams Galapagos expedition. *Zoologica* 5(8):85-92, figs. 13-14.



KERTÉSZ, K.

1901. Neue und bekannte Dipteren in der Sammlung des ungarischen National-museums. *Termés. Füzetek* 24:403-432, 1 pl.

LATREILLE, P. A.

1796. *Precis des caractères génériques des Insectes, disposés dans un ordre naturel*. 179 pp. Paris.  
1810. *Considérations générales sur l'ordre naturel des animaux*, 444 pp. Paris.

LEHMANN, J. G. C.

1822. *Observationes zoologicae praesertim in faunam hamburgensem. Pugillus primus. Indicem scholarum publice privatimque in Hamburgensium Gymnasio Academico*. 55 pp. Hamburgi.

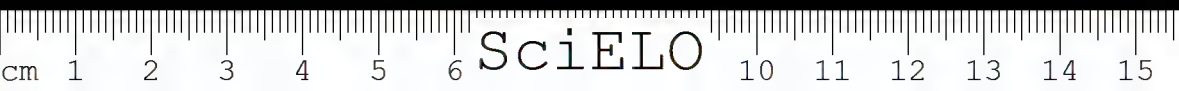
LOEW, H.

- 1857a. Neue beiträge zur Kenntniss der Dipteren. Fünfter Beitrag. *Programm K. Realschule zu Meseritz*, 1857:1-56.  
1857b. Dipterologische Mittheilungen. *Wien. Ent. Monatschr.* 1:33-56, 1 pl.  
1861a. Neue Beiträge zur Kenntniss der Dipteren. Achter Beitrag. *Programm K. Realschule zu Meseritz*, 1861:1-60.  
1861b. *Diptera aliquot in insula Cuba collecta*. *Wien. Ent. Monatschr.* 5:33-43.  
1861c. *Neue Beiträge zur Kenntniss der Dipteren. Beitrag 8*, 100 pp. Berlin.  
1862. *Diptera Americae septentrionalis indigena. Centuria secunda*. *Berlin. Ent. Ztschr.* 6:185-232.  
1864. *Monographs of the Diptera of North America. Part II*. *Smithson. Inst., Smithson. Misc. Collect.* 6(2):1-360, 5 pls.  
1866a. *Diptera Americae septentrionalis indigena. Centuria sexta*. *Berlin. Ent. Ztschr.* (1865) 9:127-186.  
1866b. *Diptera Americae septentrionalis indigena. Centuria septima*. *Berlin. Ent. Ztschr.* 10:1-54.  
1869. *Diptera Americae septentrionalis indigena. Centuria octava*. *Berlin. Ent. Ztschr.* 13:1-52.  
1872. *Diptera Americae septentrionalis indigena. Centuria decima*. *Berlin. Ent. Ztschr.* 16:49-115.

MACQUART, J.

- 1827a. *Insectes Diptères du nord de la France. Platypézines, Dolichopodes, Empides, Hybotides*. *Rec. des Trav. Soc. des Sci., de l'Agr. et des Arts, Lille*, 1826/1827:213-291, 1 pl.  
1827b. *Insectes Diptères du nord de la France*. [Vol. 3]: *Platypézines, Dolichopodes, Empides, Hybotides*, 159 pp., 4 pls. Lille  
1834-1835. *Histoire Naturelle des Insectes Diptères (Suites à Buffon)* 1(1834):578 pp., 2(1835):703 pp.  
1842. *Diptères exotiques nouveaux ou peu connus. Mém. Soc. Roy. des Sci. de l'Agr. et des Arts, Lille*, 1841(1):65-200, 22 pls.

1846. Diptères exotiques nouveaux ou peu connus. Ier Supplément. *Mém. Soc. Roy. des Sci. de l'Agr. et des Arts, Lille*, (1845) 1844: 133-364, 20 pls.
- MEIGEN, J. W.
1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Mag. f. Insektenkunde* 2:259-281.
1824. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten*. Vol. 4, xii + 428 pp., pls. 33-41. Hamm.
- MIK, J.
1874. Beitrag zur Dipteren-Fauna Oesterreich's. *Verhandl. K.-k. Zool.-Bot. Gesell. Wien* 24(Abhandl.):329-354, pl. 7.
1878. Dipterologische Untersuchungen. (Wien) *K. k. Akad. Gymnasium, Jahrehber.* 1878:1-24, 1 pl.
- MILLER, D.
1945. Generic name changes in Diptera. *Proc. Roy. Ent. Soc., London*, (B: Taxonomy)14:72.
- OLDENBERG, L.
1916. Einige Dolichopodiden meiner Ausbeute (Dipt.). *Ent. Mitt.* 5(5-8):187-198, 4 figs.
- OSTEN SACKEN, C. R.
1877. Western Diptera: Descriptions of new genera and species of Diptera from the region west of the Mississippi and especially from California. *Bull. U.S. Geol. and Geog. Survey of the Ter.*, 3:189-354.
1887. Diptera, Vol. I. Pp. 129-160, 161-176, 177-208, 209-216, pl. 3 In Godman, F. D., and Salvin, O., eds., *Biologia Centrali-Americana. Zoologia-Insecta-Diptera*, Vol. 1, 373 pp., 6 pls. London.
- PARENT, O.
1928. Étude sur les Diptères Dolichopodides exotiques conservés au Zoologisches Staatinstitut und Zoologisches Museum de Hambourg. *Mitt. Zool. Staatsinst. u. Zool. Mus. Hamburg.* 43:155-198, 85 figs.
- 1929a. Clé de détermination des males des espèces néarctiques et néotropicales réunies du genre *Condylostylus* Bigot (sensu Becker). *Ann. Soc. Sci. de Bruxelles*, (B) 49:74-87.
- 1929b. Étude sur les Dolichopodides exotiques de la collection von Röder. *Ann. Soc. Sci. de Bruxelles*, (B) 49:169-246, 124 figs.
- 1929c. Études sur les Dolichopodides. *Encyclopédie Ent.*, (B, II) *Diptera* 5:1-18, 22 figs.
- 1930a. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny III. Teil. Diptera: Dolichopodidae. *Ann. Naturhist. Mus. Wien* 44:5-26, 30 figs.
- 1930b. Espèces nouvelles de Dolichopodides (Diptères) conservées au Muséum National d'Histoire Naturelle de Paris. *Ann. Soc. Sci. de Bruxelles* (B) 50:86-115, 38 figs.





1931. Diptères Dolichopodides de l'Amérique du Sud. Espèces nouvelles figurant dans la collection Schnuse conservées aux Staatliche Museen für Tierkunde und Völkerkunde zu Dresden. *Abhandl. u. Ber. Dresden Staatl. Mus. Tierkunde u. Völkerkunde*, 18(1):1-21, 3 pls.
- 1932a. Espèces nouvelles du genre *Sympycnus* Lw. provenant de l'Amérique du sud et conservée au Muséum de Dresde. *Encyclopédie Ent.*, (B, II) *Diptera* 6:41-70, 36 figs.
- 1932b. Étude sur les types de Bigot (Diptères Dolichopodides). *Ann. Soc. Sci. de Bruxelles*, (B) 52:215-231, 24 figs.
- 1932c. Sur quelques Diptères Dolichopodides, la plupart appartenant à la collection L. Oldenberg. Notes et descriptions. (Dipt.). *Stettin. Ent. Ztg.* 93(2):220-241, 21 figs.
- 1933a. Die Ausbeute der deutschen Chaco-Expedition 1925/26. — *Diptera. Konowia* 11(4):241-259, 23 figs.
- 1933b. Contribution à la faune diptérologique de l'Amérique centrale et méridionale (Diptères Dolichopodides). *Bull. et Ann. Soc. Ent. de Belg.* 73:163-186, 36 figs.
- 1933c. Quelques Diptères Dolichopodides exotiques du Musée de Bruxelles. *Bull. Mus. Roy. d'Hist. Nat. de Belg.* 9(20):1-9, 10 figs.
- 1933d. Étude monographique sur les Diptères Dolichopodides de Nouvelle-Zélande. *Ann. Soc. Sci. de Bruxelles* (B) 53:325-441, 205 figs.
- 1934a. Diptères Dolichopodides exotiques. *Mém. Soc. Natl. des Sci. Nat. et Math. de Cherbourg* (1929-1933) 41:257-308, pls. 67-79.
- 1934b. Espèces nouvelles de Diptères Dolichopodides. *Encyclopédie Ent.*, (B, II) *Diptera* 7:113-140, 47 figs.
1935. Diptères Dolichopodides nouveaux. *Encyclopédie Ent.*, (B, II) *Diptera* 8:59-96, 43 figs.
1937. Diptères Dolichopodides. Espèces et localités nouvelles. *Bull. et Ann. Soc. Ent. de Belg.* 77(3):125-148, 42 figs.
1939. Quelques Diptères Dolichopodides de la région néotropicale. *Arb. über Morph. u. Taxonom. Ent.* 6(2):140-151, 15 figs.
1954. Quelques Diptères Dolichopodides (Deuxième article). *Beitr. z. Ent.* (Berlin) 4(2):221-230, 15 figs.

PERRIS, É.

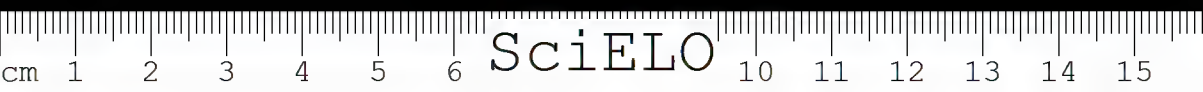
1847. Lettre de M. Édouard Perris à M. M sur une excursion dans les Grandes Landes. *Mém. Acad. Roy. des Sci., Belles-Let. et Arts de Lyon, Sect. des Sci.* 2:433-506.

PHILIPPI, R. A.

1865. Aufzählung der chilenischen Dipteren. *Verhandl. K.-k. Zool.-Bot. Gesell. Wien* 15(Abhandl.):595-782, 7 pls.
1875. Descripción de un nuevo diptero chileno. *Anal. Univ. Chile* 47:83-86.

PORTER, C. E.

1929. Entomologia Chilena. Diptero que no figura en los catálogos. *Rev. Chilena de Hist. Nat.* 32(1928):230.



ROBINSON, H.

- 1964a. A synopsis of the Dolichopodidae (Diptera) of the southeastern United States and adjacent regions. *Ent. Soc. Amer. Misc. Pub.* 4(4):103-192, 139 figs.
- 1964b. Two new genera of Dolichopodidae from Mexico (Diptera). *Proc. Ent. Soc. Wash.* 66:245-252, 9 figs.
1965. *Discopygiella*, a new genus of Dolichopodidae from Mexico (Diptera). *Proc. Ent. Soc. Wash.* 67:51-55, 1 fig.
- 1966a. A revision of the neotropical genus *Symbolia* (Diptera: Dolichopodidae). *Ann. Ent. Soc. Amer.* 59(3):489-496, figs. 1-25.
- 1966b. A new species of *Calyxochaetus* from Mexico (Diptera, Dolichopodidae). *Proc. Ent. Soc. Wash.* 68:272.
- 1967a. New species of Dolichopodidae from the United States and Mexico (Diptera). *Proc. Ent. Soc. Wash.* 69:114-127, 31 figs.
- 1967b. Revision of the genus *Harmstonia* (Diptera: Dolichopodidae). *Proc. U.S. Natl. Mus.* 123(3615):1-16, 16 figs.
- 1967c. A revision of the subfamily Stolidosominae (Diptera: Dolichopodidae). *Ann. Ent. Soc. Amer.* 60(5):892-903, 14 figs.
- 1967d. *Neoparentia*, a new genus of American Dolichopodidae (Diptera). *Proc. Ent. Soc. Wash.* 69:252-259, 11 figs.
- 1967e. New species of *Micromorphus* from the United States and Mexico. *Proc. Ent. Soc. Wash.* 69:329-334, 5 figs.

RÜDER, V. VON

1885. Dipteren von der Insel Portorico. *Stettin. Ent. Ztg.* 46:337-349.
1892. Ueber die Dipteren-Gattung *Lyroneurus* Löw nebst Beschreibung einer neuen Art. *Societas Ent.* 7(11):81.

RONDANI, C.

1848. Esame di varie specie d'insetti ditteri brasiliani. *Studi Ent.* (Turin) 1:63-112.
1856. *Dipterologiae Italicae prodromus*. Vol. 1: Genera Italica ordinis dipterorum ordinatim disposita et distincta et in familias et stirpes aggregata, 228 pp. Parmae.

SAUNDERS, L. G.

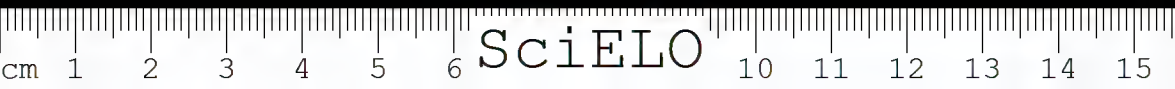
1928. Some marine insects of the Pacific coast of Canada. *Ann. Ent. Soc. Amer.* 21:521-545, 9 figs.

SAY, T.

1823. Descriptions of dipterous insects of the United States. *Jour. Acad. Nat. Sci. Phila.* 3:9-54, 73-104.
- 1829-1830. Descriptions of North American dipterous insects. *Jour. Acad. Nat. Sci. Phila.* 6:149-178, 1829; 183-188, 1830.

SCHINER, I. R.

1868. Diptera, 388 pp., 4 pls. In Wüllerstorff-Urbair B. von, *Reise der österreichischen Fregatte Novara*. Zool., Vol. 2, Abt. 1, [Sect.] B. Wien.



SCHLÖDTE, J. C.

1844. Forhandlinger i det skandinaviske entomologiske selskab. *Naturhist. Tidsskr.* (1844-1845) (2) 1:16-70.

SCOPOLI, J. A.

1763. *Entomologia carniolica exhibens insecta carnioliae indigene et distributa in ordines, genera, species, varietates methodo Linnaeana*. 421 pp. Vindobonae.

STANNIUS, F. H.

1831. Die europäischen Arten der Zweyflülgergattung *Dolichopus*. *Isis (Oken's)* 1831:28-68, 122-144, 248-271, pl. 1.

STEYSKAL, G. C.

1938. The pre-copulatory behavior of the male of *Dolichopus omnivagus* Van Duzee (Diptera, Dolichopodidae). *Bull. Brooklyn Ent. Soc.* 33:193-194.
1942. Notes on the genus *Dolichopus* (Diptera, Dolichopodidae). Paper 2. *Bull. Brooklyn Ent. Soc.* 37:62-67.
1947. Notes on the genus *Dolichopus* (Diptera, Dolichopodidae). Paper 3. *Bull. Brooklyn Ent. Soc.* 42:34-38.
1959. *Dolichopus correus*, new species, and notes on other Dolichopodidae (Diptera, Brachycera). *Occas. Papers Mich. Univ. Mus. Zool.* 604:1-6, 9 figs.
1966. A new species of *Sciapus* from California, with a revised key to the species of *Sciapus* found in America north of Mexico. *Proc. Ent. Soc. Wash.* 68:290-294.
1968. Priority of the generic name *Tonnoiria* Malloch and *Tonnoiria* Parent (Diptera). *Proc. Ent. Soc. Wash.* 70:87.

THOMPSON, C. G.

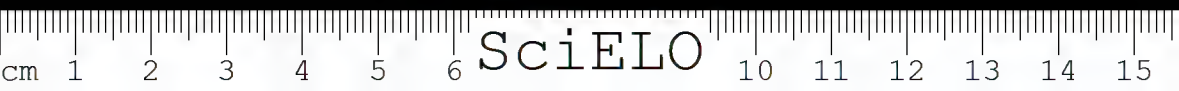
1869. 6. Diptera. Species nova descripsit. Pp. 443-614, pl. 9. In K. Svenska Vetenskaps-Akademien, *Kongliga svenska fregatten Eugenie resa omkring jorden*. Pt. 2: Zoologie, 1: Insekter, 617 pp., 9 pls. Stockholm, (1868).

VAN DUZEE, M. C.

- 1913a. Synoptical table of the North American species of the dipterous genus *Sympycnus*, with the description of a new species. *Ent. News* 24:269-272, 2 figs.
- 1913b. A revision of the North American species of the dipterous genus *Neurigona* (Dolichopodidae). *Ann. Ent. Soc. Amer.* 6:22-61, 2 pls.
- 1914a. Notes on *Sciapus*, with descriptions of three new species. *Canad. Ent.* 46:389-393.
- 1914b. New species of North American Dolichopodidae (Dip.). *Ent. News* 25:433-443, pl. 18.
- 1915a. A revision of the North American species of the dipterous genus *Diaphorus*. *Bull. Buffalo Soc. Nat. Sci.* 11(2):161-194, 1 fig.



- 1915b. Descriptions of three new species of the dipterous genus *Sciapus* with a key to the North American species. *Ent. News* 26:17-26, 3 figs.
- 1915c. A biological reconnaissance of the Okefenokee Swamp region in Georgia. The Dolichopodidae (Diptera). *Wash. Univ. [St. Louis] Studies* 2(1): 87-95, 8 figs.
- 1919a. Key to the North American species of the dipterous genus *Medeterus* with descriptions of new species. *Proc. Calif. Acad. Sci.* (4) 8:257-270.
- 1919b. Two new *Asyndetus* with a table of the North American species (Dolichopodidae, Diptera). *Ent. News* 30:248-250, 4 figs.
- 1923a. The *Pelastoneurus* of North America (Dolichopodidae, Diptera). *Ann. Ent. Soc. Amer.* 16:30-48, 1 pl.
- 1923b. VIII. Expedition of the California Academy of Sciences to the Gulf of California in 1921. New Dolichopodidae (Long-legged flies). *Proc. Calif. Acad. Sci.* (4) 12:105-112.
- 1924a. New species of the dipterous family Dolichopodidae. *Occas. Papers Boston Soc. Nat. Hist.* 5:101-106.
- 1924b. A revision of the North American species of the dipterous genus *Chrysotus*. *Bull. Buffalo Soc. Nat. Sci.* 13(3):3-53, 1 pl.
- 1924c. North American species of *Paraphrosylus* Becker, a subgenus of *Aphrosylus* Walker. *Pan-Pacific Ent.* 1:73-78.
- 1926a. A new dolichopodid genus, with descriptions of five new species (Diptera). *Trans. Amer. Ent. Soc.* 52:39-46, 15 figs.
- 1926b. The genus *Thinophilus* in North America (Dolichopodidae, Diptera). *Ann. Ent. Soc. Amer.* 19:35-49.
- 1927a. Three new species of *Psilopus* from North America, and notes on *caudatus* Wied. (Dip.: Dolichopodidae). *Ent. News* 38:72-76, 4 figs.
- 1927b. New Dolichopodidae from the West Indies. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 262:1-10.
- 1927c. Four new dolichopids in the collection of the California Academy of Sciences. *Pan-Pacific Ent.* 3:146-148.
- 1927d. North American species of *Polymedon* (Diptera Dolichopodidae). *Ann. Ent. Soc. Amer.* 20:123-126.
- 1929a. Tropical American Diptera or two-winged flies of the family Dolichopodidae from Central and South America. *Proc. U.S. Nat. Mus.* 74(10):1-64, 2 pls.
- 1929b. New species of Dolichopodidae from the West Indies, (Diptera). *Psyche* 36:37-39.
- 1930a. New species of Dolichopodidae from North America (Diptera). *Ent. News* 41:53-55, 70-73, 1 fig.
- 1930b. Dolichopodidae. *Diptera of Patagonia and South Chile* 5(1):1-92, pls. 1-3, Brit. Mus. (Nat. Hist.), London.
- 1930c. New species of Dolichopodidae from North America and the West Indies. *Canad. Ent.* 62:84-87, 1 fig.
- 1930d. The dipterous genus *Sympycnus* Loew in North America and the West Indies. *Pan-Pacific Ent.* 7:35-47, 49-63, 2 pls.
- 1931a. New species of Dolichopodidae taken by Mr. and Mrs. F. W. Edwards in South America. *Ann. and Mag. Nat. Hist.* (10) 7:243-255, figs. 1-11.





- 1931b. Dolichopidae of the Canal Zone. *Bull. Amer. Mus. Nat. Hist.* 61:161-200, 2 pls.
- 1931c. New South American species of Dolichopidae. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 483:1-26, 29 figs.
- 1931d. New South and Central American Dolichopidae. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 484:1-14, 13 figs.
- 1932a. New species of Dolichopidae from North America and Cuba, with notes on known species. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 521:1-14, 13 figs.
- 1932b. Three new species of Dolichopodidae from North America and Cuba, with notes on *Diaphorus leucostola* Loew and its allies (Diptera). *Ent. News* 43:183-187, 3 figs.
- 1932c. New North and South American Dolichopidae, with notes on previously described species. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 569:1-22, 31 figs.
- 1933a. New Dolichopidae from North America with notes on several described species. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 599:1-27, 52 figs.
- 1933b. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 7. Dolichopodidae and Phoridae. *Proc. Calif. Acad. Sci.* (4) 21:65-73, pl. 4.
- 1933c. Preoccupied names of dolichopodid flies and the new names proposed for the species (Diptera). *Ent. News* 44:151-152.
- 1933d. New American Dolichopidae. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 655:1-20, 33 figs.
- 1934a. A new species of *Sympycnus* from Mexico. *Pan-Pacific Ent.* 10:80-82, 6 figs.
- 1934b. Dolichopidae. Pp. 365-374, pl. 1. In Curran, C. H., The Diptera of Kartabo, Bartica District, British Guiana. *Bull. Amer. Mus. Nat. Hist.* 66:287-532, 8 pls.

VAN DUZEE, M. C., F. R. COLE, & J. M. ALDRICH.

1921. The dipterous genus *Dolichopus* Latreille in North America. *Bull. U.S. Natl. Mus.* 116:1-304, 1 fig., 16 pls.

VAN DUZEE, M. C. & C. H. CURRAN.

- 1934a. Key to the males of nearctic *Dolichopus* Latreille (Diptera). *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 683:1-26.
- 1934b. Key to the females of nearctic *Dolichopus* Latreille (Diptera). *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 684:1-17.

WAHLBERG, P. F.

1844. Om *Rhaphium flavipalpe* Zett. *Öfversigt af K. Svenska Vetensk. Akad. Förhandl.* 1:37-38.

WALKER, F.

1836. XV. Descriptions, &c. of the insects collected by Captain P. P. King, R.N., F.R.S., in the survey of the Straits of Magellan. Diptera. *Trans. Linn. Soc. London* 17:331-359, (1835).
- 1848-1849. *List of the specimens of dipterous insects in the collection of the British Museum*. Vol. 1, pp. 1-229, 1848; Vol. 2, pp. 231-484, 1849; Vol. 3, pp. 485-687, 1849; Vol. 4, pp. 689-1172, 1849. London.
1852. Diptera. Vol. 1, pp. 157-252, 253-414, 4 pls. In Saunders, W. W., ed., *Insecta Saundersiana*. London, (1856).
1860. Characters of undescribed Diptera in the collection of W. W. Saunders. *Trans. Ent. Soc. London*, (1858-1861) n. ser., 5:268-269.

WESTWOOD, J. O.

1840. Order XIII. Diptera Aristotle (Antliata Fabricius. Halteriptera Clairv.). In *An introduction to the modern classification of insects. Synopsis of the genera of British insects*, 158 pp. London.

WHEELER, W. M.

1890. Descriptions of some new North American Dolichopodidae. *Psyche* 5:337-343, 355-362, 373-379.
1896. Two dolichopodid genera new to America. *Ent. News* 7:152-156.
1897. A genus of maritime Dolichopodidae new to America. *Proc. Calif. Acad. Sci.* (3) 1 (Zool.):145-152, 1 pl.
1899. New species of Dolichopodidae from the United States. *Proc. Calif. Acad. Sci.* (3) 2(Zool.):1-84, 4 pls.

WIEDEMANN, C. R. W.

1830. *Aussereuropäische zweiflügelige Insekten*. Vol. 2, xii + 684 pp., 5 pls. Hamm.

WIRTH, W. W., AND STONE, A.

1956. Chapter 14. Aquatic Diptera. Pp. 372-482, 64 figs. In Usinger, R. L., ed., *Aquatic insects of California, with keys to North American genera and California species*. 508 pp., 501 figs. Berkeley, Calif.

WULP, F. M. VAN DER

1882. Amerikaansche Diptera. *Tijdschr. v. Ent.* (1881-1882) 25:77-136, pls. 9-10.
1888. Nieuwe Argentijnsche Diptera van Wijlen Prof. H. Weyenbergh Jr. *Tijdschr. v. Ent.* 31:359-376, pls. 9-10.

ZELLER, P. C.

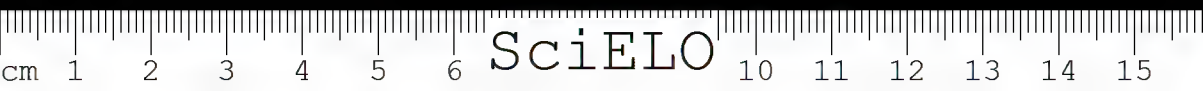
1842. Dipterologische Beyträge. Zweyte Abtheilung. *Isis* (Oken's) 1842:807-847, 1 pl.

ZETTERSTEDT, J. W.

1843. *Diptera Scandinaviae, disposita et descripta*. Vol. 2, pp. 441-894. Lundae.

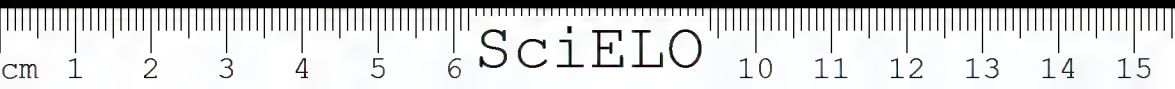
# INDEX

|  |       |
|--|-------|
| abbreviatum Parent, 1928, <i>Stolidosoma</i> .....                                   | 40.38 |
| abdominale Robinson, 1967, <i>Stolidosoma</i> .....                                  | 40.38 |
| abdominalis (Aldrich), 1902 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....          | 40.53 |
| abdominalis (Say), 1829 ( <i>Chrysotus</i> ), <i>Thrypticus</i> .....                | 40.21 |
| aberrans Robinson, 1964, <i>Paraclius</i> .....                                      | 40.47 |
| abruptus Van Duzee, 1919, <i>Medetera</i> .....                                      | 40.18 |
| abruptus Van Duzee, 1919, <i>Dedetera</i> .....                                      | 40.18 |
| acceptus Parent, 1933, <i>Condylostylus</i> .....                                    | 40.3  |
| <i>Achalcus</i> Loew, 1857 .....   | 40.22 |
| <i>Achradocera</i> Becker, 1922 .....  | 40.31 |
| acuticauda Van Duzee, 1929, <i>Pelastoneurus</i> .....                               | 40.49 |
| acuticauda Van Duzee, 1929, <i>Thrypticus</i> .....                                  | 40.21 |
| acuticornis Becker, 1922, <i>Chrysotus</i> .....                                     | 40.28 |
| acuticornis Van Duzee, 1929, <i>Paraclius</i> .....                                  | 40.47 |
| <i>acuticornis</i> (Van Duzee), 1926 ( <i>Kophosoma</i> ), <i>Peloroepodes</i> ..... | 40.26 |
| acutispina Van Duzee, 1931, <i>Sarcionus</i> .....                                   | 40.52 |
| acutum Robinson, 1967, <i>Stolidosoma</i> .....                                      | 40.39 |
| acutus Aldrich, 1896, <i>Chrysotus</i> .....   | 40.28 |
| adauctus Parent, 1933, <i>Thrypticus</i> .....                                       | 40.21 |
| aduncus (Van Duzee), 1933 ( <i>Condylostylus</i> ), <i>Mesorhaga</i> .....           | 40.14 |
| adustus (Wiedemann), 1830 ( <i>Dolichopus</i> ), <i>Diaphorus</i> .....              | 40.35 |
| aequalis Becker, 1922, <i>Sympycnus</i> .....  | 40.41 |
| aequalis Van Duzee, 1927, <i>Pelastoneurus</i> .....                                 | 40.50 |
| aequatorialis Becker, 1919, <i>Sympycnus</i> .....                                   | 40.41 |
| affinis Loew, 1861, <i>Chrysotus</i> .....   | 40.28 |
| <i>Agnosoma</i> , authors .....  | 40.14 |
| <i>Agonosomatinae</i> .....  | 40.2  |
| alacer Parent, 1934, <i>Diaphorus</i> .....  | 40.32 |
| alatum Becker, 1922, <i>Syntomoneurum</i> .....                                      | 40.58 |
| alatus Becker, 1922, <i>Condylostylus</i> .....                                      | 40.3  |
| <i>albiapicatus</i> (Parent), 1929 ( <i>Condylostylus</i> ), <i>Chrysosoma</i> ..... | 40.2  |
| albibarbus Parent, 1932, <i>Sympycnus</i> .....                                      | 40.41 |
| albiciata (Aldrich), 1893 ( <i>Aptorthus</i> ), <i>Mesorhaga</i> .....               | 40.14 |
| albiciatus (Van Duzee), 1927 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....         | 40.3  |
| albiciatus Van Duzee, 1915, <i>Diaphorus</i> .....                                   | 40.32 |
| albiciatus Van Duzee, 1930, <i>Sympycnus</i> .....                                   | 40.41 |
| albicinctum Van Duzee, 1929, <i>Keirosoma</i> .....                                  | 40.36 |
| albicinctus Parent, 1932, <i>Sympycnus</i> .....                                     | 40.41 |
| albifacies Parent, 1931, <i>Sciapus</i> .....  | 40.14 |
| albihirtus Van Duzee, 1929, <i>Condylostylus</i> .....                               | 40.3  |
| albihirtus Van Duzee, 1930, <i>Sympycnus</i> .....                                   | 40.41 |
| albimanus Van Duzee, 1929, <i>Paraclius</i> .....                                    | 40.47 |
| albinus (Becker), 1922 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....               | 40.53 |
| albipalpus Aldrich, 1896, <i>Chrysotus</i> .....                                     | 40.28 |
| albipalpus Parent, 1931, <i>Achalcus</i> .....                                       | 40.22 |
| albipalpus (Parent), 1930 ( <i>Sympycnus</i> ), <i>Pseudosympycnus</i> .....         | 40.38 |
| albipes (Zetterstedt), 1843 ( <i>Hydrophorus</i> ), <i>Micromorphus</i> .....        | 40.25 |
| albisignatus Parent, 1928, <i>Paraclius</i> .....                                    | 40.47 |
| albitalus (Van Duzee), 1929 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....          | 40.53 |
| albitarsis Van Duzee, 1931, <i>Medetera</i> .....                                    | 40.18 |
| albiterminalis Van Duzee, 1930, <i>Tachytrechus</i> .....                            | 40.53 |



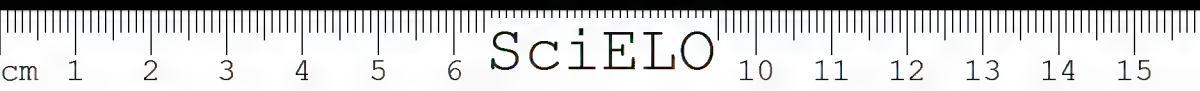


|  |       |
|--|-------|
| albonotatus (Loew), 1864 (Paraclius), Tachytrechus .....             | 40.53 |
| albopictus Parent, 1931, Hydrophorus .....                           | 40.56 |
| albopilosus (Van Duzee), 1931 (Paraclius), Tachytrechus .....        | 40.53 |
| aldrichi Robinson, Peloropeodes, nom. nov. ....                      | 40.26 |
| aldrichi Robinson, 1966, Symbolia .....                              | 40.37 |
| aldrichi (Van Duzee), 1929 (Paraclius), Tachytrechus .....           | 40.53 |
| altera Parent, 1931, Medetera .....                                  | 40.19 |
| amabilis Parent, 1931, Chrysotus .....                               | 40.28 |
| amazonae Parent, 1929, Paraclius .....                               | 40.47 |
| amazonicus Parent, 1930, Diaphorus .....                             | 40.32 |
| americana Parent, 1934, Neurigona .....                              | 40.17 |
| americanus (Wheeler), 1896 (Xiphandrium), Chrysotus .....            | 40.32 |
| americanus (Schiner), 1868 (Sybistroma), Tachytrechus .....          | 40.53 |
| amicus Parent, 1931, Diaphorus .....                                 | 40.32 |
| <i>Ammobates</i> Stannius, 1831 .....                                | 40.52 |
| amoenus Aldrich, 1902, Diaphorus .....                               | 40.33 |
| amoenus Becker, 1922, Thrypticus .....                               | 40.21 |
| amoris (Walker), 1849 (Psilopus), Condyllostylus .....               | 40.3  |
| amplimanus Van Duzee, 1931, Medetera .....                           | 40.19 |
| anale Parent, 1952, Syntomoneurum .....                              | 40.58 |
| analís Becker, 1922, Thrypticus .....                                | 40.21 |
| <i>Anchineura</i> Thomson, 1868 .....                                | 40.27 |
| anceps (Wiedemann), 1830 (Psilopus), Condyllostylus .....            | 40.3  |
| andicola (Bigot), 1890 (Gymnoceromyia), Sympycnus .....              | 40.41 |
| angelicus Parent, 1930, Sciapus .....                                | 40.14 |
| angulinervis Parent, 1939, Sympycnus .....                           | 40.41 |
| angustatum Aldrich, 1893, Leptorhethum .....                         | 40.13 |
| <i>angustatus</i> (Enderlein), 1912 (Psilopus), Sciapus .....        | 40.16 |
| <i>angustatus</i> (Van Duzee), 1929 (Psilopus), Condyllostylus ..... | 40.3  |
| angusticauda Van Duzee, 1933, Paraclius .....                        | 40.47 |
| angustifacies (Becker), 1922 (Achradocera), Chrysotus .....          | 40.31 |
| angustifacies (Parent), 1929 (Tonnoiria), Neotonnoiria .....         | 40.17 |
| angustifrons Parent, 1929, Sciapus .....                             | 40.15 |
| angustipennis Aldrich, 1901, Sympycnus .....                         | 40.41 |
| angustipennis Loew, 1862, Tachytrechus .....                         | 40.53 |
| angustipennis Van Duzee, 1929, Paraclius .....                       | 40.47 |
| annulatus (Macquart), 1842 (Chrysotus), Diaphorus .....              | 40.35 |
| annulatus Parent, 1929, Sympycnus .....                              | 40.41 |
| annulitarsis Parent, 1931, Argentina .....                           | 40.16 |
| <i>Anomalopyga</i> Oldenberg, 1916 .....                             | 40.26 |
| <i>Anoplomerus</i> Rondani, 1856 .....                               | 40.57 |
| anormalis Parent, 1932, Sympycnus .....                              | 40.42 |
| antarcticus (Walker), 1836 (Medetera), Sympycnus .....               | 40.42 |
| antennatus Becker, 1922, Sciapus .....                               | 40.15 |
| antennatus Becker, 1922, Sympycnus .....                             | 40.42 |
| antennatus Van Duzee, 1915, Diaphorus .....                          | 40.33 |
| antennatus Van Duzee, 1930, Tachytrechus .....                       | 40.53 |
| anticus Becker, 1919, Sympycnus .....                                | 40.42 |
| anus Becker, 1922, Medetera .....                                    | 40.19 |
| <i>Aphantotimus</i> Wheeler, 1890 .....                              | 40.21 |
| Aphrosylus Haliday, 1851 .....                                       | 40.56 |
| <i>Aphrozeta</i> Perris, 1847 .....                                  | 40.56 |
| apicalis Aldrich, 1896, Chrysotus .....                              | 40.32 |
| apicalis (Becker), 1922 (Lyroneurus), Diaphorus .....                | 40.35 |

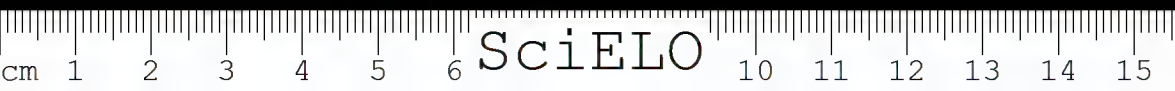




|   |       |
|---|-------|
| <i>apicalis</i> Parent, 1954, <i>Paraclius</i> .....                                  | 40.47 |
| <i>apicalis</i> Van Duzee, 1930, <i>Argyra</i> .....                                  | 40.27 |
| <i>appendiculatus</i> Van Duzee, 1930, <i>Sympycnus</i> .....                         | 40.42 |
| <i>approximatus</i> Aldrich, 1896, <i>Diaphorus</i> .....                             | 40.34 |
| <i>Aptorthus</i> Aldrich, 1893 .....  | 40.14 |
| <i>arcuatus</i> (Loew), 1861 ( <i>Pelastoneurus</i> ), <i>Paraclius</i> .....         | 40.47 |
| <i>argentatus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....     | 40.3  |
| <i>argentatus</i> (Aldrich), 1901 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....     | 40.53 |
| <i>argentatus</i> Parent, 1934, <i>Paraclius</i> .....                                | 40.47 |
| <i>argentifer</i> Aldrich, 1896, <i>Pelastoneurus</i> .....                           | 40.50 |
| <i>argentifer</i> Parent, 1929, <i>Condylostylus</i> .....                            | 40.3  |
| <i>argentimanus</i> Parent, 1932, <i>Sympycnus</i> .....                              | 40.42 |
| <i>argentimanus</i> (Van Duzee), 1929 ( <i>Paraclius</i> ), <i>Tachytrechus</i> ..... | 40.53 |
| <i>Argentina</i> Parent, 1931 .....   | 40.16 |
| <i>argentipalpis</i> Van Duzee, 1923, <i>Diaphorus</i> .....                          | 40.33 |
| <i>argentipes</i> Parent, 1929, <i>Condylostylus</i> .....                            | 40.3  |
| <i>argentipes</i> Van Duzee, 1930, <i>Tachytrechus</i> .....                          | 40.53 |
| <i>Argyra</i> Macquart, 1834 .....  | 40.27 |
| <i>argyropus</i> Becker, 1922, <i>Tachytrechus</i> .....                              | 40.53 |
| <i>armatus</i> Becker, 1922, <i>Sympycnus</i> .....                                   | 40.42 |
| <i>armiger</i> Van Duzee, 1931, <i>Sciapus</i> .....                                  | 40.15 |
| <i>armiger</i> Van Duzee, 1926, <i>Thinophilus</i> .....                              | 40.58 |
| <i>armipes</i> (Bigot), 1890 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....          | 40.3  |
| <i>astequinus</i> (Bigot), 1888 ( <i>Psilopodinus</i> ), <i>Condylostylus</i> .....   | 40.3  |
| <i>asymmetricus</i> Robinson, 1967, <i>Micromorphus</i> .....                         | 40.25 |
| <i>Asyndetus</i> Loew, 1869 .....   | 40.27 |
| <i>atratus</i> (Van Duzee), 1930 ( <i>Achalcus</i> ), <i>Enlinia</i> .....            | 40.23 |
| <i>atricauda</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....      | 40.3  |
| <i>atrolamellatus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> ..... | 40.3  |
| <i>atrox</i> Becker, 1922, <i>Condylostylus</i> .....                                 | 40.4  |
| <i>attenuata</i> Robinson, 1967, <i>Harmstonia</i> .....                              | 40.24 |
| <i>audax</i> Parent, 1932, <i>Sympycnus</i> .....                                     | 40.42 |
| <i>banksi</i> Van Duzee, 1929, <i>Neurigona</i> .....                                 | 40.18 |
| <i>barbata</i> (Aldrich), 1902 ( <i>Chrysotimus</i> ), <i>Nanomyia</i> .....          | 40.26 |
| <i>barbatulus</i> Becker, 1922, <i>Condylostylus</i> .....                            | 40.4  |
| <i>barbatus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....       | 40.4  |
| <i>barbatus</i> (Loew), 1861 ( <i>Synarthrus</i> ), <i>Chrysotus</i> .....            | 40.32 |
| <i>barbicauda</i> Van Duzee, 1923, <i>Pelastoneurus</i> .....                         | 40.50 |
| <i>barbipes</i> (Van Duzee), 1934 ( <i>Condylostylus</i> ), <i>Chrysosoma</i> .....   | 40.2  |
| <i>barbitarsus</i> Parent, 1928, <i>Condylostylus</i> .....                           | 40.4  |
| <i>basalis</i> Philippi, 1865 ( <i>Chrysotus</i> ) .....                              | 40.58 |
| <i>basalis</i> Van Duzee, 1930, <i>Thrypticus</i> .....                               | 40.21 |
| <i>basilaris</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....    | 40.4  |
| <i>beckeri</i> Parent, 1931, <i>Syntomoneurum</i> .....                               | 40.58 |
| <i>bella</i> Van Duzee, 1929, <i>Medetera</i> .....                                   | 40.19 |
| <i>bellimanus</i> (Van Duzee), 1927 ( <i>Psilopus</i> ), <i>Sciapus</i> .....         | 40.15 |
| <i>bellulus</i> (Aldrich), 1896 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....       | 40.4  |
| <i>bellus</i> (Aldrich), 1902 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....         | 40.53 |
| <i>bequaerti</i> Van Duzee, 1933, <i>Pelastoneurus</i> .....                          | 40.50 |
| <i>bicolor</i> Parent, 1939, <i>Coelinium</i> .....                                   | 40.17 |
| <i>bicolor</i> (Parent), 1954 ( <i>Nematoproctus</i> ), <i>Neoparentia</i> .....      | 40.40 |
| <i>bicolor</i> Parent, 1934, <i>Stolidosoma</i> .....                                 | 40.39 |
| <i>bicolor</i> Robinson, 1967, <i>Pseudosympycnus</i> .....                           | 40.38 |



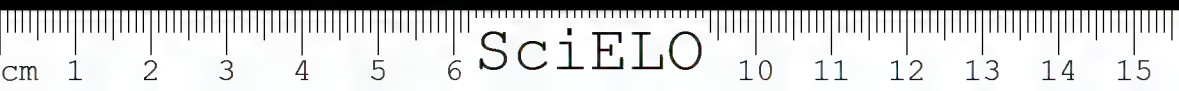
|  |       |
|--|-------|
| <i>bicolor</i> Van Duzee, 1933, <i>Neurigona</i> .....                                 | 40.17 |
| <i>bicoloripes</i> Van Duzee, 1933, <i>Coeloglutus</i> .....                           | 40.17 |
| <i>bicoloripes</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....   | 40.4  |
| <i>bicoloripes</i> Van Duzee, 1930, <i>Sympycnus</i> .....                             | 40.42 |
| <i>bifasciatus</i> Parent, 1931, <i>Condylostylus</i> .....                            | 40.4  |
| <i>bifidus</i> Becker, 1919, <i>Sympycnus</i> .....                                    | 40.42 |
| <i>bifimbriatus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....    | 40.4  |
| <i>bifractus</i> Loew, 1861, <i>Dolichopus</i> .....                                   | 40.46 |
| <i>bigeminatus</i> Aldrich, 1901, <i>Pelastoneurus</i> .....                           | 40.50 |
| <i>bigoti</i> Parent, 1932, <i>Chrysotus</i> .....                                     | 40.28 |
| <i>biguttatus</i> Becker, 1922, <i>Pelastoneurus</i> .....                             | 40.50 |
| <i>bilamellatus</i> Van Duzee, 1931, <i>Pelastoneurus</i> .....                        | 40.50 |
| <i>bilobus</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Sciapus</i> .....             | 40.15 |
| <i>bilineatus</i> Van Duzee, 1931, <i>Pelastoneurus</i> .....                          | 40.50 |
| <i>bipilus</i> Van Duzee, 1929, <i>Sympycnus</i> .....                                 | 40.42 |
| <i>bipunctatus</i> (Macquart), 1842 ( <i>Dolichopus</i> ), <i>Tachytrechus</i> .....   | 40.53 |
| <i>biseta</i> Becker, 1922, <i>Condylostylus</i> .....                                 | 40.4  |
| <i>bisetosa</i> Robinson, 1967, <i>Neoparentia</i> .....                               | 40.40 |
| <i>bisetosus</i> Parent, 1930, <i>Condylostylus</i> .....                              | 40.4  |
| <i>bisinuatus</i> Van Duzee, 1931, <i>Condylostylus</i> .....                          | 40.4  |
| <i>bispinosus</i> Becker, 1922, <i>Diaphorus</i> .....                                 | 40.36 |
| <i>bituberculatus</i> (Macquart), 1842 ( <i>Psilopus</i> ), <i>Condylostylus</i> ..... | 40.4  |
| <i>blandus</i> Parent, 1934, <i>Chrysotimus</i> .....                                  | 40.24 |
| <i>boliviensis</i> Parent, 1931, <i>Tachytrechus</i> .....                             | 40.54 |
| <i>brasiliensis</i> (Schiner), 1868 ( <i>Saucropus</i> ), <i>Neurigona</i> .....       | 40.17 |
| <i>brasiliensis</i> Van Duzee, 1933, <i>Chrysotus</i> .....                            | 40.28 |
| <i>brasiliensis</i> Van Duzee, 1931, <i>Pelastoneurus</i> .....                        | 40.50 |
| <i>brevicauda</i> Van Duzee, 1930, <i>Thrypticus</i> .....                             | 40.21 |
| <i>breviciliatus</i> Parent, 1929, <i>Condylostylus</i> .....                          | 40.4  |
| <i>brevicornis</i> Van Duzee, 1933, <i>Chrysotus</i> .....                             | 40.28 |
| <i>brevicornis</i> Van Duzee, 1931, <i>Paraclius</i> .....                             | 40.47 |
| <i>brevilamellatus</i> Parent, 1929, <i>Condylostylus</i> .....                        | 40.4  |
| <i>brevimanus</i> (Enderlein), 1912 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....    | 40.4  |
| <i>brevimanus</i> Van Duzee, 1923, <i>Asyndetus</i> .....                              | 40.27 |
| <i>brevimanus</i> Van Duzee, 1931, <i>Diaphorus</i> .....                              | 40.33 |
| <i>brevimanus</i> Van Duzee, 1931, <i>Paraclius</i> .....                              | 40.47 |
| <i>brevinervis</i> Van Duzee, 1930, <i>Achalculus</i> .....                            | 40.23 |
| <i>brevipedis</i> Van Duzee, 1931, <i>Condylostylus</i> .....                          | 40.4  |
| <i>brevis</i> Becker, 1922, <i>Condylostylus</i> .....                                 | 40.4  |
| <i>breviseta</i> (Coquillett), 1920 ( <i>Sciopus</i> ), <i>Condylostylus</i> .....     | 40.4  |
| <i>brevispina</i> Van Duzee, 1933, <i>Chrysotus</i> .....                              | 40.28 |
| <i>brevitalus</i> Van Duzee, 1930, <i>Sympycnus</i> .....                              | 40.42 |
| <i>brevitarsis</i> Becker, 1922, <i>Sympycnus</i> .....                                | 40.42 |
| <i>brevitibia</i> Van Duzee, 1927, <i>Chrysotus</i> .....                              | 40.28 |
| <i>breviventris</i> Van Duzee, 1931, <i>Paraclius</i> .....                            | 40.47 |
| <i>bullacki</i> , error, <i>Sympycnus</i> .....  | 40.42 |
| <i>bullocki</i> Van Duzee, 1933, <i>Sympycnus</i> .....                                | 40.42 |
| <i>caeruleus</i> Van Duzee, 1923, <i>Pelastoneurus</i> .....                           | 40.50 |
| <i>caesar</i> Becker, 1922, <i>Condylostylus</i> .....                                 | 40.4  |
| <i>calcaratus</i> Parent, 1932, <i>Sympycnus</i> .....                                 | 40.44 |
| <i>calcaratus</i> Van Duzee, 1930, <i>Chrysotus</i> .....                              | 40.28 |
| <i>callosus</i> (Becker), 1922 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....         | 40.54 |



|   |       |
|---|-------|
| <i>Calyxochaetus</i> Bigot, 1888 .....  | 40.39 |
| <i>campsicneminae</i> .....   | 40.39 |
| <i>campsicnemoides</i> Robinson, 1964, <i>Microcyrtura</i> .....                    | 40.20 |
| <i>camptopus</i> Parent, 1928, <i>Condylostylus</i> .....                           | 40.4  |
| <i>cancer</i> Van Duzee, 1934, <i>Condylostylus</i> .....                           | 40.4  |
| <i>cancioi</i> Parent, 1933, <i>Pelastoneurus</i> .....                             | 40.50 |
| <i>capitulatus</i> Parent, 1929, <i>Condylostylus</i> .....                         | 40.4  |
| <i>capillimanus</i> (Enderlein), 1912 ( <i>Psilopus</i> ), <i>Sciapus</i> .....     | 40.15 |
| <i>castus</i> (Loew), 1866 ( <i>Psilopus</i> ), <i>Sciapus</i> .....                | 40.15 |
| <i>caudatulus</i> Van Duzee, 1932, <i>Chrysotus</i> .....                           | 40.28 |
| <i>caudatus</i> (Aldrich), 1902 ( <i>Achalcus</i> ), <i>Micromorphus</i> .....      | 40.25 |
| <i>caudatus</i> Parent, 1939, <i>Thrypticus</i> .....                               | 40.21 |
| <i>caudatus</i> Van Duzee, 1931, <i>Chrysotus</i> .....                             | 40.29 |
| <i>caudatus</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....   | 40.4  |
| <i>chaetophorus</i> (Schiner), 1868 ( <i>Psilopus</i> ), <i>Condylostylus</i> ..... | 40.6  |
| <i>chalybeus</i> (Roeder), 1892 ( <i>Lyroneurus</i> ), <i>Diaphorus</i> .....       | 40.35 |
| <i>chamaeleon</i> Becker, 1922, <i>Diaphorus</i> .....                              | 40.35 |
| <i>cheesmani</i> (Parent), 1934 ( <i>Vanduzeeia</i> ), <i>Cymatopus</i> .....       | 40.56 |
| <i>Cheirocerus</i> Parent, 1930 .....   | 40.46 |
| <i>chetifer</i> Parent, 1934, <i>Chrysotus</i> .....                                | 40.29 |
| <i>chiapensis</i> Robinson, 1965, <i>Discopygiella</i> .....                        | 40.25 |
| <i>chilensis</i> Parent, 1928, <i>Sympycnus</i> .....                               | 40.42 |
| <i>chilensis</i> Van Duzee, 1930, <i>Chrysotus</i> .....                            | 40.32 |
| <i>choricus</i> Wheeler, 1890, <i>Chrysotus</i> .....                               | 40.29 |
| <i>chrysoprasi</i> (Walker), 1849 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....   | 40.5  |
| <i>Chrysosoma</i> Guérin-Ménéville, 1831 .....                                      | 40.2  |
| <i>Chrysosomatinae</i> .....  | 40.2  |
| <i>Chrysotimus</i> Loew, 1857 .....   | 40.24 |
| <i>Chrysotus</i> Meigen, 1824 .....   | 40.28 |
| <i>chrysotus</i> Parent, 1928, <i>Diaphorus</i> .....                               | 40.33 |
| <i>ciliata</i> Robinson, 1964, <i>Enlinia</i> .....                                 | 40.23 |
| <i>ciliatus</i> Becker, 1922, <i>Diaphorus</i> .....                                | 40.33 |
| <i>ciliatus</i> Becker, 1922, <i>Sympycnus</i> .....                                | 40.42 |
| <i>ciliatus</i> (Loew), 1861 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....        | 40.9  |
| <i>ciliatus</i> Parent, 1929, <i>Condylostylus</i> .....                            | 40.5  |
| <i>cilicostatus</i> (Van Duzee), 1927 ( <i>Psilopus</i> ), <i>Sciapus</i> .....     | 40.15 |
| <i>cilifemoratus</i> Parent, 1932, <i>Sympycnus</i> .....                           | 40.42 |
| <i>ciliferus</i> (Becker), 1922 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....     | 40.54 |
| <i>ciliipennis</i> (Aldrich), 1901 ( <i>Gnamptopsilopus</i> ), <i>Sciapus</i> ..... | 40.15 |
| <i>ciliipes</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....     | 40.5  |
| <i>cilitarsis</i> (Wulp), 1888 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....      | 40.5  |
| <i>cilitibia</i> Parent, 1939, <i>Condylostylus</i> .....                           | 40.5  |
| <i>cilitibia</i> Parent, 1932, <i>Sympycnus</i> .....                               | 40.42 |
| <i>cinctiventris</i> Van Duzee, 1934, <i>Condylostylus</i> .....                    | 40.5  |
| <i>cinereicollis</i> (Wulp), 1888 ( <i>Saucropus</i> ), <i>Neurigona</i> .....      | 40.17 |
| <i>cinereus</i> (Perris), 1847 ( <i>Aphrozeta</i> ), <i>Hydrophorus</i> .....       | 40.57 |
| <i>clathratus</i> (Macquart), 1842 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....  | 40.5  |
| <i>clavatus</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....   | 40.5  |
| <i>clavatus</i> Van Duzee, 1913, <i>Sympycnus</i> .....                             | 40.42 |
| <i>clavicauda</i> Robinson, 1967, <i>Harmstonia</i> .....                           | 40.24 |
| <i>claviculatus</i> Loew, 1866, <i>Paraclius</i> .....                              | 40.48 |
| <i>clavipes</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....     | 40.5  |
| <i>clavipilus</i> Parent, 1929, <i>Condylostylus</i> .....                          | 40.5  |



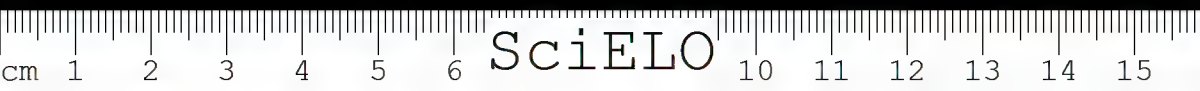
|  |       |
|--|-------|
| <i>clunalis</i> (Coquillett), 1902 (Sciopus), <i>Condyllostylus</i> .....          | 40.5  |
| <i>cobaltinus</i> Van Duzee, 1924, <i>Chrysotus</i> .....                          | 40.29 |
| <i>cochlearis</i> Becker, 1922, <i>Condyllostylus</i> .....                        | 40.5  |
| <i>Coelinium</i> Parent, 1939 .....  | 40.17 |
| <i>Coeloglutus</i> Aldrich, 1896 .....   | 40.17 |
| <i>coerulescens</i> (Loew), 1857 ( <i>Lyroneurus</i> ), <i>Diaphorus</i> .....     | 40.35 |
| <i>cognatus</i> Parent, 1931, <i>Hydrophorus</i> .....                             | 40.56 |
| <i>Collinellula</i> Aldrich, 1932 .....  | 40.23 |
| <i>collinus</i> Philippi, 1865 ( <i>Dolichopus</i> ) .....                         | 40.58 |
| <i>comatum</i> (Loew), 1861 ( <i>Psilopus</i> ), <i>Chrysosoma</i> .....           | 40.2  |
| <i>comatus</i> Van Duzee, 1931, <i>Sympycnus</i> .....                             | 40.42 |
| <i>comes</i> Parent, 1933, <i>Condyllostylus</i> .....                             | 40.5  |
| <i>completus</i> Becker, 1922, <i>Condyllostylus</i> .....                         | 40.6  |
| <i>concavus</i> Aldrich, 1896, <i>Coeloglutum</i> .....                            | 40.17 |
| <i>concinarius</i> Say, 1829 ( <i>Chrysotus</i> ) .....                            | 40.58 |
| <i>concolor</i> Philippi, 1865 ( <i>Dolichopus</i> ) .....                         | 40.58 |
| <i>Condyllostylus</i> Bigot, 1859 .....  | 40.3  |
| <i>confluens</i> Becker, 1922, <i>Condyllostylus</i> .....                         | 40.5  |
| <i>confraternus</i> Van Duzee, 1930, <i>Chrysotimus</i> .....                      | 40.24 |
| <i>confusus</i> Parent, 1931, <i>Tachytrechus</i> .....                            | 40.54 |
| <i>contiguus</i> Aldrich, 1896, <i>Diaphorus</i> .....                             | 40.33 |
| <i>contractus</i> Van Duzee, 1929, <i>Chrysotus</i> .....                          | 40.32 |
| <i>convexa</i> Becker, 1922, <i>Hyptiocheta</i> .....                              | 40.40 |
| <i>corbieri</i> Parent, 1934, <i>Chrysotus</i> .....                               | 40.29 |
| <i>corculum</i> (Walker), 1849 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....    | 40.5  |
| <i>cornuta</i> (Van Duzee), 1926 ( <i>Kophosoma</i> ), <i>Peloroepodes</i> .....   | 40.26 |
| <i>cornuta</i> Van Duzee, 1930, <i>Pseudargyra</i> .....                           | 40.36 |
| <i>cornutus</i> Loew, 1862, <i>Chrysotus</i> .....                                 | 40.29 |
| <i>cornutus</i> Van Duzee, 1931, <i>Condyllostylus</i> .....                       | 40.5  |
| <i>coruscans</i> Parent, 1928, <i>Neurigona</i> .....                              | 40.18 |
| <i>costaericae</i> (Parent), 1928 ( <i>Pachypyga</i> ), <i>Peloroepodes</i> .....  | 40.26 |
| <i>costalis</i> (Becker), 1922 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....     | 40.54 |
| <i>costalis</i> Van Duzee, 1923, <i>Pelastoneurus</i> .....                        | 40.50 |
| <i>costaricensis</i> Parent, 1934, <i>Diaphorus</i> .....                          | 40.33 |
| <i>costaricensis</i> Robinson, 1967, <i>Harmstonia</i> .....                       | 40.24 |
| <i>costaricensis</i> Robinson, 1966, <i>Symbolia</i> .....                         | 40.37 |
| <i>costaricensis</i> Robinson, 1967, <i>Telmaturgus</i> .....                      | 40.46 |
| <i>coxalis</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....    | 40.5  |
| <i>coxalis</i> (Aldrich), 1901 ( <i>Sympycnus</i> ), <i>Peloroepodes</i> .....     | 40.26 |
| <i>coxalis</i> Robinson, 1967, <i>Sympycnidelpus</i> .....                         | 40.38 |
| <i>coxalis</i> Van Duzee, 1933, <i>Paraclius</i> .....                             | 40.48 |
| <i>crassitarsis</i> Parent, 1939, <i>Chrysotus</i> .....                           | 40.29 |
| <i>crassitarsis</i> Van Duzee, 1931, <i>Condyllostylus</i> .....                   | 40.8  |
| <i>crassitibia</i> Van Duzee, 1929, <i>Oedematopus</i> .....                       | 40.57 |
| <i>crinicauda</i> Parent, 1929, <i>Condyllostylus</i> .....                        | 40.5  |
| <i>crinipes</i> Becker, 1922, <i>Sympycnus</i> .....                               | 40.42 |
| <i>crinitum</i> (Aldrich), 1904 ( <i>Psilopodinus</i> ), <i>Chrysosoma</i> .....   | 40.2  |
| <i>ctenopus</i> (Enderlein), 1912 ( <i>Psilopus</i> ), <i>Condyllostylus</i> ..... | 40.5  |
| <i>cupulifera</i> (Aldrich), 1896 ( <i>Xanthotricha</i> ), <i>Thrypticus</i> ..... | 40.21 |
| <i>currani</i> Van Duzee, 1931, <i>Asyndetus</i> .....                             | 40.27 |
| <i>currani</i> Van Duzee, 1931, <i>Medetera</i> .....                              | 40.20 |
| <i>currani</i> Van Duzee, 1931, <i>Sarcionus</i> .....                             | 40.52 |
| <i>currani</i> (Van Duzee), 1931 ( <i>Sympycnus</i> ), <i>Stolidosoma</i> .....    | 40.39 |





|  |       |
|--|-------|
| <i>curvispina</i> Van Duzes, 1929, <i>Diaphorus</i> .....                            | 40.35 |
| <i>cyaneum</i> Becker, 1922, <i>Stolidosoma</i> .....                                | 40.39 |
| <i>cylindricus</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Condylostylus</i> ..... | 40.5  |
| <i>cylindricus</i> Van Duzee, 1930, <i>Sympycnus</i> .....                           | 40.42 |
| <i>Cymatopus</i> Kertész, 1901 .....   | 40.56 |
| <i>Cyrtosymbolia</i> Parent, 1931 .....  | 40.37 |

|   |       |
|---|-------|
| <i>Dactylomyia</i> Aldrich, 1894 .....  | 40.17 |
| <i>dampfii</i> Van Duzee, 1934, <i>Sympycnus</i> .....                            | 40.42 |
| <i>deceptivus</i> Aldrich, 1901, <i>Diaphorus</i> .....                           | 40.34 |
| <i>decora</i> Aldrich, 1902, <i>Neurigona</i> .....                               | 40.18 |
| <i>decoripes</i> Becker, 1922, <i>Condylostylus</i> .....                         | 40.5  |
| <i>decorus</i> Parent, 1931, <i>Pelastoneurus</i> .....                           | 40.50 |
| <i>deformis</i> Robinson, 1967, <i>Neoparentia</i> .....                          | 40.40 |
| <i>dentaticauda</i> Van Duzee, 1933, <i>Condylostylus</i> .....                   | 40.6  |
| <i>denticulatus</i> Van Duzee, 1931, <i>Condylostylus</i> .....                   | 40.6  |
| <i>depressus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....  | 40.6  |
| <i>depressus</i> Van Duzee, 1926, <i>Thinophilus</i> .....                        | 40.58 |
| <i>derelicta</i> Parent, 1928, <i>Neurigona</i> .....                             | 40.18 |
| <i>despectus</i> Parent, 1939, <i>Diaphorus</i> .....                             | 40.33 |
| <i>detegendus</i> Parent, 1935, <i>Condylostylus</i> .....                        | 40.6  |
| <i>Diaphorinae</i> .....  | 40.27 |
| <i>Diaphorus</i> Meigen, 1824 .....   | 40.32 |
| <i>diaphorus</i> Parent, 1939, <i>Chrysotus</i> .....                             | 40.29 |
| <i>dichaeus</i> Parent, 1932, <i>Sympycnus</i> .....                              | 40.43 |
| <i>dichromatus</i> (Bigot), 1890 ( <i>Peodes</i> ), <i>Chrysotimus</i> .....      | 40.24 |
| <i>difficilis</i> Becker, 1922, <i>Paraclius</i> .....                            | 40.48 |
| <i>difficilis</i> Van Duzee, 1930, <i>Sympycnus</i> .....                         | 40.43 |
| <i>diffusus</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condylostylus</i> ..... | 40.6  |
| <i>digitatus</i> (Van Duzee), 1914 ( <i>Sciopus</i> ), <i>Condylostylus</i> ..... | 40.6  |
| <i>digitatus</i> Van Duzee, 1914, <i>Sciapus</i> .....                            | 40.15 |
| <i>digitulus</i> Becker, 1922, <i>Pelastoneurus</i> .....                         | 40.50 |
| <i>dilatata</i> Becker, 1922, <i>Medetera</i> .....                               | 40.19 |
| <i>diligens</i> Parent, 1931, <i>Chrysotus</i> .....                              | 40.29 |
| <i>dimidiatus</i> Aldrich, 1896, <i>Diaphorus</i> .....                           | 40.33 |
| <i>dimidiatus</i> (Loew), 1862 ( <i>Psilopus</i> ), <i>Sciapus</i> .....          | 40.15 |
| <i>diminuans</i> Becker, 1922, <i>Condylostylus</i> .....                         | 40.6  |
| <i>diminuatus</i> Becker, 1922, <i>Hydrophorus</i> .....                          | 40.57 |
| <i>discifer</i> Aldrich, 1902, <i>Paraclius</i> .....                             | 40.48 |
| <i>discolor</i> (Bigot), 1890 ( <i>Xiphandrium</i> ), <i>Sympycnus</i> .....      | 40.43 |
| <i>discolor</i> Loew, 1861, <i>Chrysotus</i> .....                                | 40.29 |
| <i>discolor</i> Robinson, 1965, <i>Discopygiella</i> .....                        | 40.25 |
| <i>discophorus</i> Parent, 1933, <i>Paraclius</i> .....                           | 40.48 |
| <i>Discopygiella</i> Robinson, 1965 .....   | 40.25 |
| <i>disjunctus</i> Van Duzee, 1923, <i>Asyndetus</i> .....                         | 40.27 |
| <i>distinctus</i> Van Duzee, 1931, <i>Condylostylus</i> .....                     | 40.6  |
| <i>distinguendus</i> Parent, 1928, <i>Diaphorus</i> .....                         | 40.33 |
| <i>divergens</i> Parent, 1939, <i>Diaphorus</i> .....                             | 40.33 |
| <i>diversifemur</i> Parent, 1935, <i>Condylostylus</i> .....                      | 40.4  |
| <i>diversipes</i> Becker, 1922, <i>Condylostylus</i> .....                        | 40.6  |
| <i>diversipes</i> Van Duzee, 1930, <i>Sympycnus</i> .....                         | 40.43 |
| <i>dives</i> Parent, 1929, <i>Condylostylus</i> .....                             | 40.6  |



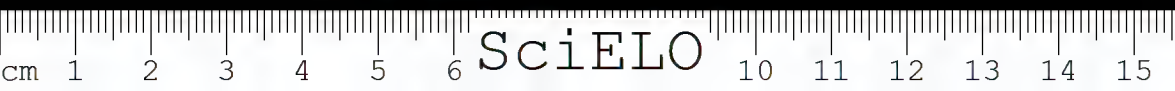
|   |       |
|---|-------|
| Dolichopodinae .....  | 40.46 |
| Dolichopus Latreille, 1796 .....                            | 40.46 |
| dolosus Parent, 1934, Sympycnus .....                       | 40.43 |
| dominulus Parent, 1932, Sympycnus .....                     | 40.43 |
| dorsalis (Loew), 1866 (Psilopus), Sciapus .....             | 40.15 |
| dorsalis (Van Duzee), 1930 (Anepsiomyia), Chrysotimus ..... | 40.25 |
| dorsalis Van Duzee, 1923, Pelastoneurus .....               | 40.50 |
| dubiosus Philippi, 1865 (Dolichopus) .....                  | 40.58 |
| dubius Aldrich, 1896, Diaphorus .....                       | 40.33 |
| dux (Wiedemann), 1830 (Psilopus), Condyllostylus .....      | 40.6  |
| dyeri Van Duzee, 1931, Diaphorus .....                      | 40.33 |
| edwardsae (Van Duzee), 1930, (Achalculus), Enlinia .....    | 40.23 |
| edwardsi Van Duzee, 1930, Chrysotus .....                   | 40.29 |
| edwardsi Van Duzee, 1930, Diaphorus .....                   | 40.33 |
| edwardsi Van Duzee, 1931, Paraclius .....                   | 40.48 |
| edwardsi Van Duzee, 1930, Syntormon .....                   | 40.45 |
| edwardsi Van Duzee, 1931, Thrypticus .....                  | 40.21 |
| elangeli Becker, 1919, Sympycnus .....                      | 40.43 |
| electus (Walker), 1852 (Psilopus), Condyllostylus .....     | 40.6  |
| elegans Parent, 1932, Sympycnus .....                       | 40.43 |
| elegantulus Becker, 1922, Condyllostylus .....              | 40.6  |
| elevatus Becker, 1922, Hydrophorus .....                    | 40.57 |
| elongatus Van Duzee, 1930, Paraclius .....                  | 40.48 |
| Enlinia Aldrich, 1933 .....                                 | 40.23 |
| Enliniinae .....  | 40.23 |
| eques (Loew), 1864 (Eutarsus), Stolidosoma .....            | 40.39 |
| eques Parent, 1931, Chrysotus .....                         | 40.29 |
| equestris (Fabricius), 1775 (Musca), Condyllostylus .....   | 40.6  |
| erectus Becker, 1922, Condyllostylus .....                  | 40.6  |
| erraneus Becker, 1922, Sympycnus .....                      | 40.43 |
| errans Parent, 1931, Chrysotus .....                        | 40.29 |
| excavata Becker, 1922, Medetera .....                       | 40.19 |
| excavatus Van Duzee, 1924, Chrysotus .....                  | 40.32 |
| exceptus Becker, 1922, Chrysotus .....                      | 40.29 |
| excipiens Becker, 1922, Medetera .....                      | 40.19 |
| excisicornis (Parent), 1930 (Paraclius), Tachytrechus ..... | 40.54 |
| excisus Aldrich, 1896, Chrysotus .....                      | 40.29 |
| exemtus (Walker), 1852 (Psilopus), Condyllostylus .....     | 40.6  |
| exiguus Aldrich, 1902, Medetera .....                       | 40.19 |
| exiguus Van Duzee, 1927, Asyndetus .....                    | 40.27 |
| exiguus (Van Duzee), 1933 (Kophosoma), Peloropeodes .....   | 40.26 |
| exilis (Philippi), 1865 (Dolichopus), Chrysotimus .....     | 40.24 |
| eximius Van Duzee, 1931, Paraclius .....                    | 40.48 |
| exquisitus (Walker), 1852 (Psilopus), Condyllostylus .....  | 40.6  |
| exsul (Parent), 1932 (Sciopus), Chrysosoma .....            | 40.2  |
| exunguis Thomson, 1869, Diaphorus .....                     | 40.34 |
| facetus Parent, 1933, Condyllostylus .....                  | 40.6  |
| facialis (Becker), 1922 (Paraclius), Tachytrechus .....     | 40.54 |
| falco (Aldrich), 1896 (Sympycnus), Peloropeodes .....       | 40.26 |
| fasciatus Roeder, 1885, Pelastoneurus .....                 | 40.50 |
| fascinator Parent, 1933, Condyllostylus .....               | 40.6  |



|   |       |
|---|-------|
| fastuosus Parent, 1933, Condyllostylus .....                        | 40.6  |
| felix Becker, 1922, Condyllostylus .....                            | 40.6  |
| femoralis (Becker), 1922 (Achradochera), Chrysotus .....            | 40.32 |
| femoralis (Becker), 1922 (Paraclius), Tachytrechus .....            | 40.54 |
| femoratus Aldrich, 1901, Paraclius .....                            | 40.48 |
| femoratus Bigot, 1890, Chrysotus .....                              | 40.32 |
| femoratus Walker, 1852, Diaphorus .....                             | 40.33 |
| fenestrella Parent, 1933, Condyllostylus .....                      | 40.6  |
| fernandezensis Harmston, 1955, Sympycnus .....                      | 40.43 |
| Filatopus Miller, 1945 .....  | 40.40 |
| filifer Aldrich, 1896, Paraclius .....                              | 40.48 |
| filiformis Becker, 1922, Condyllostylus .....                       | 40.6  |
| filiformis Van Duzee, 1929, Sympycnus .....                         | 40.43 |
| filipenicillatus (Enderlein), 1912 (Psilopus), Condyllostylus ..... | 40.7  |
| fimbriatus Parent, 1928, Condyllostylus .....                       | 40.7  |
| fimbriatus Parent, 1932, Sympycnus .....                            | 40.43 |
| flabellifera Becker, 1922, Medetera .....                           | 40.19 |
| flagellatus Becker, 1922, Condyllostylus .....                      | 40.7  |
| flagellatus (Harmston), 1952 (Hercostomus), Paraclius .....         | 40.48 |
| flagellipodex Becker, 1922, Condyllostylus .....                    | 40.7  |
| flaviannulatus (Van Duzee), 1929 (Psilopus), Sciapus .....          | 40.15 |
| flavicauda Van Duzee, 1931, Paraclius .....                         | 40.48 |
| flavicauda (Van Duzee), 1931 (Sympycnus), Stolidosoma .....         | 40.39 |
| flaviciliatus Van Duzee, 1931, Sympycnus .....                      | 40.43 |
| flavicornis (Aldrich), 1896 (Gnamptopsilopus), Sciapus .....        | 40.15 |
| flavicornis Becker, 1922, Medetera .....                            | 40.19 |
| flavicornis Van Duzee, 1933, Thrypticus .....                       | 40.21 |
| flavicoxa (Aldrich), 1901 (Psicolopus), Condyllostylus .....        | 40.7  |
| flavicoxa Aldrich, 1901, Sarcionus .....                            | 40.52 |
| flavidum Robinson, 1967, Stolidosoma .....                          | 40.39 |
| flavidus (Aldrich), 1896 (Gnamptopsilopus), Sciapus .....           | 40.15 |
| flavifrons Philippi, 1865 (Dolichopus) .....                        | 40.58 |
| flavilamellatus Becker, 1922, Condyllostylus .....                  | 40.7  |
| flavimaculata Van Duzee, 1929, Chrysotus .....                      | 40.29 |
| flavimanus (Macquart), 1842 (Psilopus), Condyllostylus .....        | 40.7  |
| flavimanus Van Duzee, 1934, Hercostomus .....                       | 40.46 |
| flavipalpis Van Duzee, 1930, Chrysotus .....                        | 40.29 |
| flavipes Aldrich, 1896, Diaphorus .....                             | 40.33 |
| flavipes (Aldrich), 1901 (Hercostomus), Paraclius .....             | 40.48 |
| flavipes Schiner, 1868, Pelastoneurus .....                         | 40.50 |
| flavipes Van Duzee, 1919, Medetera .....                            | 40.19 |
| flaviseta Van Duzee, 1929, Medetera .....                           | 40.19 |
| flavitaris Van Duzee, 1930, Medetera .....                          | 40.19 |
| flavitibialis Van Duzee, 1929, Asyndetus .....                      | 40.27 |
| flavizonatus Parent, 1954, Condyllostylus .....                     | 40.7  |
| flavohirtus, error, Chrysotus .....                                 | 40.29 |
| flavus (Aldrich), 1896 (Chrysotus), Xanthina .....                  | 40.23 |
| floridanus Wheeler, 1899, Pelastoneurus .....                       | 40.50 |
| floridus Parent, 1939, Condyllostylus .....                         | 40.7  |
| forcipatus (Aldrich), 1901 (Psilopus), Condyllostylus .....         | 40.7  |
| formosum Parent, 1934, Chrysosoma .....                             | 40.2  |
| formosus (Parent), 1931 (Paraclius), Tachytrechus .....             | 40.54 |
| fratellus Aldrich, 1896, Asyndetus .....                            | 40.27 |
| fratellus (Becker), 1922 (Lyroneurus), Diaphorus .....              | 40.35 |
| frater (Aldrich), 1902 (Sympycnus), Peloroceodes .....              | 40.26 |

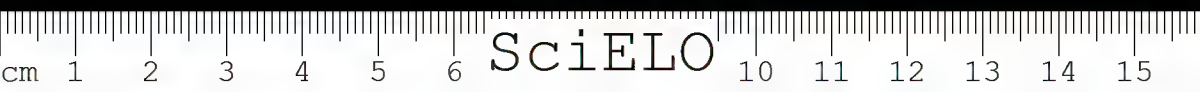


|   |       |
|---|-------|
| <i>fraterculus</i> (Enderlein), 1912 ( <i>Psilopus</i> ), <i>Condyllostylus</i> ..... | 40.7  |
| <i>fraterculus</i> (Wheeler), 1890 ( <i>Aphantotimus</i> ), <i>Thrypticus</i> .....   | 40.21 |
| <i>frontalis</i> (Van Duzee), 1929 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....    | 40.54 |
| <i>fulvosetosus</i> Parent, 1929, <i>Micromorphus</i> .....                           | 40.25 |
| <i>fumipennis</i> (Van Duzee), 1924 ( <i>Paraphrosylus</i> ), <i>Aphrosylus</i> ..... | 40.56 |
| <i>funebri</i> Parent, 1929, <i>Mesorhaga</i> .....                                   | 40.14 |
| <i>furcatus</i> (Van Duzee), 1929 ( <i>Nothosympycnus</i> ), <i>Calyxochaetus</i> ... | 40.39 |
| <i>furcillatus</i> Parent, 1928, <i>Condyllostylus</i> .....                          | 40.7  |
| <i>fuscicornis</i> (Aldrich), 1902 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....    | 40.54 |
| <i>fuscipennis</i> Van Duzee, 1934, <i>Condyllostylus</i> .....                       | 40.7  |
| <i>fuscipennis</i> Van Duzee, 1929, <i>Pelastoneurus</i> .....                        | 40.50 |
| <i>fuscipennis</i> Van Duzee, 1930, <i>Pseudargyra</i> .....                          | 40.36 |
| <i>fuscipennis</i> Van Duzee, 1930, <i>Sympycnus</i> .....                            | 40.43 |
| <i>fuscipennis</i> (Van Duzee), 1931 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....  | 40.54 |
| <i>fuscipes</i> (Van Duzee), 1926 ( <i>Kophosoma</i> ), <i>Peloroepodes</i> .....     | 40.26 |
| <i>fuscitarsis</i> Van Duzee, 1932, <i>Pelastoneurus</i> .....                        | 40.50 |
| <i>fusciventris</i> Van Duzee, 1930, <i>Sympycnus</i> .....                           | 40.43 |
| <i>fusiformis</i> (Becker), 1922 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....      | 40.54 |
|   |       |
| <i>geminus</i> Becker, 1922, <i>Asyndetus</i> .....                                   | 40.27 |
| <i>geniculatus</i> Parent, 1932, <i>Sympycnus</i> .....                               | 40.43 |
| <i>genitale</i> (Parent), 1931 ( <i>Kophosoma</i> ), <i>Peloroepodes</i> .....        | 40.26 |
| <i>genualis</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....      | 40.7  |
| <i>genualis</i> Loew, 1861, <i>Liancalus</i> .....                                    | 40.57 |
| <i>giganteus</i> Parent, 1931, <i>Chrysotus</i> .....                                 | 40.29 |
| <i>gilvipes</i> (Enderlein), 1912 ( <i>Psilopus</i> ), <i>Sciapus</i> .....           | 40.15 |
| <i>globulitarsis</i> Becker, 1922, <i>Sympycnus</i> .....                             | 40.43 |
| <i>Gnamptopsilopus</i> Aldrich, 1893 .....  | 40.14 |
| <i>goetghebueri</i> Parent, 1929, <i>Condyllostylus</i> .....                         | 40.3  |
| <i>Gongrophora</i> Philippi, 1875 .....   | 40.53 |
| <i>Gonioneurum</i> Becker, 1922 .....   | 40.46 |
| <i>gorgonensis</i> Parent, 1933, <i>Condyllostylus</i> .....                          | 40.7  |
| <i>gracilis</i> (Aldrich), 1904 ( <i>Psilopodinus</i> ), <i>Condyllostylus</i> .....  | 40.7  |
| <i>gracilis</i> Parent, 1934, <i>Sympycnus</i> .....                                  | 40.43 |
| <i>graenicheri</i> (Van Duzee), 1927 ( <i>Psilopus</i> ), <i>Condyllostylus</i> ..... | 40.7  |
| <i>grandicornis</i> Parent, 1930, <i>Chrysotus</i> .....                              | 40.29 |
| <i>grandicornis</i> Van Duzee, 1930, <i>Sympycnus</i> .....                           | 40.43 |
| <i>gratiosus</i> Becker, 1922, <i>Sciapus</i> .....                                   | 40.15 |
| <i>griseicollis</i> Becker, 1922 (? <i>Subsympycnus</i> ), <i>Sympycnus</i> .....     | 40.45 |
| <i>griseoprasius</i> , error, <i>Condyllostylus</i> .....                             | 40.5  |
| <i>grossicauda</i> Van Duzee, 1931, <i>Neurigona</i> .....                            | 40.18 |
| <i>guianica</i> Curran, 1925, <i>Tachytrechus</i> .....                               | 40.54 |
| <i>guttipennis</i> (Rondani), 1848 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....   | 40.12 |
| <i>guttula</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....     | 40.7  |
| <i>guyanensis</i> (Macquart), 1842 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....   | 40.7  |
| <i>guyanensis</i> Parent, 1934, <i>Chrysotus</i> .....                                | 40.29 |
| <i>Gymnoceromyia</i> Bigot, 1890 .....  | 40.41 |
|   |       |
| <i>haereticus</i> (Walker), 1860 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....     | 40.7  |
| <i>hamatus</i> Aldrich, 1901, <i>Pelastoneurus</i> .....                              | 40.50 |
| <i>hamatus</i> Becker, 1922, <i>Sympycnus</i> .....                                   | 40.43 |
| <i>hamatus</i> Parent, 1931, <i>Diaphorus</i> .....                                   | 40.33 |
| <i>hamiformis</i> Becker, 1922, <i>Condyllostylus</i> .....                           | 47.7  |
| <i>Hammobates</i> , error or emend. ....  | 40.52 |



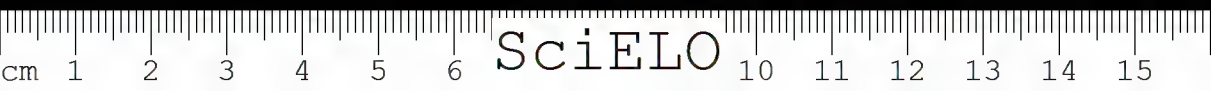


|   |       |
|---|-------|
| Harmstonia Robinson, 1964 .....                                 | 40.24 |
| hastatus (Van Duzee), 1930 (Sympycnus), Calychochaeta .....     | 40.40 |
| hebes Van Duzee, 1923, Paraclius .....                          | 40.48 |
| Hercostomus Loew, 1857 .....                                    | 40.46 |
| hexachaeta Robinson, 1967, Stolidosoma .....                    | 40.39 |
| heydeni Wiedemann, 1830 (Dolichopus) .....                      | 40.58 |
| hirsutus Aldrich, 1896, Chrysotus .....                         | 40.29 |
| hirsutus Becker, 1922, Condyllostylus .....                     | 40.7  |
| hirticauda Robinson, 1966, Symbolia .....                       | 40.37 |
| hirtipes (Aldrich), 1901 (Psilopus), Condyllostylus .....       | 40.7  |
| hirtulus (Bigot), 1888 (Psilopodinus), Condyllostylus .....     | 40.8  |
| hirtus Parent, 1931, Chrysotus .....                            | 40.29 |
| horticola Philippi, 1865 (Dolichopus) .....                     | 40.58 |
| humeralis (Aldrich), 1901 (Paraclius), Tachytrechus .....       | 40.54 |
| humilis Parent, 1928, Chrysotus .....                           | 40.30 |
| Hydrophorinae .....   | 40.56 |
| Hydrophorus Fallén, 1823 .....                                  | 40.56 |
| Hyptiocheta Becker, 1922 .....                                  | 40.40 |
| ignobilis Becker, 1922, Condyllostylus .....                    | 40.8  |
| ignoratus Becker, 1922, Condyllostylus .....                    | 40.8  |
| ignotus Becker, 1922, Condyllostylus .....                      | 40.8  |
| imitator Becker, 1922, Chrysotus .....                          | 40.30 |
| impatiens Becker, 1922, Condyllostylus .....                    | 40.8  |
| imperator (Aldrich), 1904 (Psilopodinus), Condyllostylus .....  | 40.8  |
| imperfectus Van Duzee, 1929, Sympycnus .....                    | 40.42 |
| imperialis (Fabricius), 1805 (Dolichopus), Condyllostylus ..... | 40.8  |
| inaequalis (Van Duzee), 1927 (Psilopus), Sciapus .....          | 40.15 |
| incisuralis (Macquart), 1846 (Psilopus), Condyllostylus .....   | 40.8  |
| incisus Parent, 1928, Chrysotus .....                           | 40.30 |
| inficitus (Walker), 1849 (Psilopus), Condyllostylus .....       | 40.10 |
| infumatus (Aldrich), 1901 (Gnamptopsilopus), Sciapus .....      | 40.15 |
| infuscatus Bigot, 1890, Hydrophorus .....                       | 40.57 |
| inglorius Parent, 1933, Diaphorus .....                         | 40.33 |
| inoxius Parent, 1934, Sciapus .....                             | 40.15 |
| inopinatum Parent, 1933, Chrysosoma .....                       | 40.2  |
| inornatum Robinson, 1967, Stolidosoma .....                     | 40.39 |
| inornatus (Aldrich), 1901 (Psilopus), Condyllostylus .....      | 40.8  |
| inornatus Becker, 1919, Parasyntormon .....                     | 40.41 |
| inornatus Philippi, 1865 (Dolichopus) .....                     | 40.58 |
| insignatus Parent, 1929, Condyllostylus .....                   | 40.8  |
| insignis (Parent), 1933 (Achradocera), Chrysotus .....          | 40.32 |
| insolens Van Duzee, 1930, Sympycnus .....                       | 40.43 |
| insulans Van Duzee, 1930, Diaphorus .....                       | 40.33 |
| insulanus Van Duzee, 1923, Pelastoneurus .....                  | 40.50 |
| insulanus Van Duzee, 1933, Thrypticus .....                     | 40.21 |
| insularis (Aldrich), 1896 (Psilopus), Condyllostylus .....      | 40.8  |
| integer Becker, 1922, Sympycnus .....                           | 40.43 |
| interceptus (Aldrich), 1901 (Psilopus), Condyllostylus .....    | 40.8  |
| intermedius Becker, 1922, Sympycnus .....                       | 40.43 |
| intermedius Becker, 1922, Tachytrechus .....                    | 40.54 |
| intermedius Van Duzee, 1931, Sarcionus .....                    | 40.52 |
| interruptus (Loew), 1861 (Diaphorus), Asyndetus .....           | 40.27 |



|  |       |
|--|-------|
| Ionthadophrys Van Duzee, 1930 .....                          | 40.36 |
| irrasus (Walker), 1849 (Dolichopus), Pelastoneurus .....     | 40.50 |
| jamaicensis Curran, 1928, Medetera .....                     | 40.19 |
| jucunda Becker, 1922, Mesorhaga .....                        | 40.14 |
| jucundus (Loew), 1861 (Psilopus), Condylostylus .....        | 40.8  |
| keiferi Van Duzee, 1927, Paraclius .....                     | 40.48 |
| Keirosoma Van Duzee, 1929 .....                              | 40.36 |
| Kophosoma Van Duzee, 1926 .....                              | 40.26 |
| kovasci Parent, 1933, Paraclius .....                        | 40.48 |
| kuscheli Harmston, 1955, Hydrophorus .....                   | 40.57 |
| laciniatus Becker, 1919, Chrysotus .....                     | 40.30 |
| lacrymans Parent, 1928, Mesorhaga .....                      | 40.14 |
| laeta Becker, 1922, Mesorhaga .....                          | 40.14 |
| laetus Becker, 1922, Condylostylus .....                     | 40.8  |
| laetus (Becker), 1922 (Lyroneurus), Diaphorus .....          | 40.35 |
| laevigatum (Becker), 1922 (Psilischium), Tachytrechus .....  | 40.54 |
| laevis Becker, 1922, Paraclius .....                         | 40.48 |
| lamellata Robinson, 1964, Microcyrtura .....                 | 40.20 |
| lamellicornis Parent, 1930, Calychochaetus .....             | 40.40 |
| laminatus Becker, 1922, Chrysotus .....                      | 40.30 |
| lamprostethus (Philippi), 1865 (Dolichopus), Neurigona ..... | 40.18 |
| latiopicatum Van Duzee, 1933, Chrysosoma .....               | 40.2  |
| laticornis Becker, 1922, Hydrophorus .....                   | 40.57 |
| latifacies (Becker), 1922 (Paraclius), Tachytrechus .....    | 40.54 |
| latifacies Robinson, 1966, Symbolia .....                    | 40.37 |
| latifacies Van Duzee, 1933, Chrysotus .....                  | 40.30 |
| latifacies (Van Duzee), 1934 (Condylostylus), Sciapus .....  | 40.15 |
| latimanus Van Duzee, 1931, Condylostylus .....               | 40.8  |
| latipes (Aldrich), 1896 (Hercostomus), Tachytrechus .....    | 40.54 |
| latipes (Parent), 1930 (Sympycnus), Pseudosympycnus .....    | 40.38 |
| latitarsis Becker, 1922, Tachytrechus .....                  | 40.54 |
| latitarsis (Parent), 1929 (Polymedon), Tachytrechus .....    | 40.55 |
| latitibius (Van Duzee), 1929 (Paraclius), Tachytrechus ..... | 40.54 |
| lavatus Parent, 1930, Condylostylus .....                    | 40.8  |
| Laxina Curran, 1934 .....                                    | 40.3  |
| lectus Becker, 1922, Sciapus .....                           | 40.15 |
| lepidopus Frey, 1928, Condylostylus .....                    | 40.8  |
| lepidus (Walker), 1852 (Psilopus), Condylostylus .....       | 40.8  |
| leprieuri (Macquart), 1842 (Psilopus), Condylostylus .....   | 40.8  |
| Leptocorypha Aldrich, 1896 .....                             | 40.47 |
| Leptorhethum Aldrich, 1893 .....                             | 40.13 |
| leucopilus (Loew), 1857 (Gymnopternus), Paraclius .....      | 40.48 |
| leucostoma Loew, 1861, Diaphorus .....                       | 40.33 |
| Liancalus Loew, 1857 .....                                   | 40.57 |
| liber Parent, 1932, Sympycnus .....                          | 40.43 |
| libidinosus Parent, 1933, Condylostylus .....                | 40.8  |
| lindneri Parent, 1933, Tachytrechus .....                    | 40.54 |
| linearis (Aldrich), 1896 (Anepsius), Symbolia .....          | 40.37 |
| lineatus (Aldrich), 1896 (Pelastoneurus), Sarcionus .....    | 40.52 |

|  |       |
|--|-------|
| <i>lithophilus</i> Robinson, 1967, <i>Micromorphus</i> .....                           | 40.25 |
| <i>litorea</i> Robinson, 1964, <i>Nanomyia</i> .....                                   | 40.26 |
| <i>lobatus</i> Van Duzee, 1930, <i>Sympycnus</i> .....                                 | 40.44 |
| <i>loewi</i> (Aldrich), 1901 ( <i>Eutarsus</i> ), <i>Symbolia</i> .....                | 40.37 |
| <i>loewi</i> Parent, 1930, <i>Calyxochaetus</i> .....                                  | 40.40 |
| <i>longiciliatus</i> (Van Duzee), 1931 ( <i>Paraclius</i> ), <i>Tachytrechus</i> ..... | 40.54 |
| <i>longicornis</i> (Fabricius), 1775 ( <i>Musca</i> ), <i>Megistostylus</i> .....      | 40.14 |
| <i>longicornis</i> Van Duzee, 1930, <i>Achalculus</i> .....                            | 40.23 |
| <i>longicornis</i> Van Duzee, 1931, <i>Paraclius</i> .....                             | 40.48 |
| <i>longifacies</i> (Becker), 1922 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....      | 40.54 |
| <i>longihirta</i> (Van Duzee), 1930 ( <i>Sympycnus</i> ), <i>Symbolia</i> .....        | 40.37 |
| <i>longihirtus</i> Van Duzee, 1930, <i>Ionthadophrys</i> .....                         | 40.36 |
| <i>longilamellatus</i> Parent, 1931, <i>Notobothrus</i> .....                          | 40.18 |
| <i>longilamellatus</i> Parent, 1929, <i>Pelastoneurus</i> .....                        | 40.51 |
| <i>longimanus</i> Loew, 1861, <i>Chrysotus</i> .....                                   | 40.30 |
| <i>longinervis</i> Van Duzee, 1931, <i>Diaphorus</i> .....                             | 40.33 |
| <i>longipalpis</i> Van Duzee, 1919, <i>Asyndetus</i> .....                             | 40.27 |
| <i>longipalpus</i> Aldrich, 1896, <i>Chrysotus</i> .....                               | 40.30 |
| <i>longipennis</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....   | 40.8  |
| <i>longipes</i> Philippi, 1865 ( <i>Dolichopus</i> ) .....                             | 40.58 |
| <i>longipes</i> (Van Duzee), 1927 ( <i>Chrysotus</i> ), <i>Diaphorus</i> .....         | 40.34 |
| <i>longipes</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Sciapus</i> .....            | 40.15 |
| <i>longipes</i> Van Duzee, 1929, <i>Sympycnus</i> .....                                | 40.44 |
| <i>longipilus</i> Parent, 1929, <i>Condylostylus</i> .....                             | 40.8  |
| <i>longiseta</i> (Coquillett), 1902 ( <i>Sciopus</i> ), <i>Condylostylus</i> .....     | 40.9  |
| <i>longiseta</i> (Parent), 1933 ( <i>Achradocera</i> ), <i>Chrysotus</i> .....         | 40.32 |
| <i>longisetosus</i> (Wulp), 1882 ( <i>Psilopus</i> ), <i>Megistostylus</i> .....       | 40.14 |
| <i>longiventris</i> Van Duzee, 1931, <i>Chrysotus</i> .....                            | 40.30 |
| <i>longiventris</i> Van Duzee, 1926, <i>Thinophilus</i> .....                          | 40.58 |
| <i>lorifer</i> Parent, 1931, <i>Pelastoneurus</i> .....                                | 40.50 |
| <i>loriferum</i> Parent, 1934, <i>Chrysosoma</i> .....                                 | 40.2  |
| <i>loripes</i> , error. <i>Chrysosoma</i> .....  | 40.2  |
| <i>lucidum</i> Becker, 1922, <i>Stolidosoma</i> .....                                  | 40.39 |
| <i>luctuosus</i> (Bigot), 1888 ( <i>Chrysotus</i> ), <i>Sympycnus</i> .....            | 40.44 |
| <i>lugubris</i> Loew, 1861, <i>Pelastoneurus</i> .....                                 | 40.50 |
| <i>lugubris</i> Parent, 1934, <i>Symbolia</i> .....                                    | 40.37 |
| <i>lunator</i> Curran, 1925, <i>Condylostylus</i> .....                                | 40.9  |
| <i>luteicinctus</i> Parent, 1930, <i>Condylostylus</i> .....                           | 40.9  |
| <i>luteifacies</i> Parent, 1934, <i>Pelastoneurus</i> .....                            | 40.51 |
| <i>luteifacies</i> (Parent), 1928 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....      | 40.54 |
| <i>luteipalpus</i> Parent, 1929, <i>Diaphorus</i> .....                                | 40.33 |
| <i>luteoviridis</i> (Parent), 1935 ( <i>Lyroneurus</i> ), <i>Diaphorus</i> .....       | 40.35 |
| <i>lutzi</i> Freitas & Lopes, 1941, <i>Condylostylus</i> .....                         | 40.9  |
| <i>Lyroneurus</i> Loew, 1857 .....   | 40.35 |
| <i>Macellocerus</i> Mik, 1878 .....  | 40.53 |
| <i>macula</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Sciapus</i> .....              | 40.15 |
| <i>maculata</i> Robinson, 1966, <i>Symbolia</i> .....                                  | 40.37 |
| <i>maculatus</i> Parent, 1934, <i>Diaphorus</i> .....                                  | 40.34 |
| <i>maculatus</i> (Parent), 1930 ( <i>Lyroneurus</i> ), <i>Diaphorus</i> .....          | 40.35 |
| <i>maculatus</i> Van Duzee 1926, <i>Sarcionus</i> .....                                | 40.52 |
| <i>maculipennis</i> Robinson, <i>Diaphorus</i> , nom. nov. ....                        | 40.34 |
| <i>maculipennis</i> Van Duzee, 1929, <i>Neurigona</i> .....                            | 40.18 |
| <i>maculipennis</i> Van Duzee, 1934, <i>Sarcionus</i> .....                            | 40.52 |
| <i>maculitibia</i> Van Duzee, 1929, <i>Pelastoneurus</i> .....                         | 40.51 |





|   |       |
|---|-------|
| magellanicus Robinson, Sympycnus, nom. nov. ....              | 40.44 |
| <i>magnicornis</i> Parent, 1928, Chrysotus .....              | 40.29 |
| magnicornis (Van Duzee), 1930 (Sympycnus), Pseudargyra .....  | 40.36 |
| magnipalpis Van Duzee, 1930, Diaphorus .....                  | 40.34 |
| magnipalpus Van Duzee, 1927, Chrysotus .....                  | 40.30 |
| magnus Van Duzee, 1930, Sympycnus .....                       | 40.44 |
| marginalis (Becker), 1922 (Lyroneurus), Diaphorus .....       | 40.36 |
| maritimus Van Duzee, 1923, Paraclius .....                    | 40.48 |
| Medetera Fischer von Waldheim, 1819 .....                     | 40.18 |
| Medeterinae .....   | 40.18 |
| <i>Medeterus</i> , error or emend. ....                       | 40.18 |
| medianus (Becker), 1922 (Condylostylus), Sciapus .....        | 40.15 |
| medinae (Philippi), 1875 (Gongrophora), Tachytrechus .....    | 40.55 |
| mediotinctus Becker, 1922, Diaphorus .....                    | 40.34 |
| medius Parent, 1932, Sympycnus .....                          | 40.44 |
| megalopyga Robinson, 1967, Harmstonia .....                   | 40.24 |
| Megistostylus Bigot, 1859 .....                               | 40.13 |
| <i>Megystostylus</i> , error .....                            | 40.14 |
| <i>Megystotylus</i> , error .....                             | 40.14 |
| melampus (Loew), 1862 (Psilopus), Condylostylus .....         | 40.9  |
| melanocheirus Van Duzee, 1930, Tachytrechus .....             | 40.55 |
| melini Frey, 1928, Neurigona .....                            | 40.18 |
| mensor (Van Duzee), 1929 (Psilopus), Condylostylus .....      | 40.9  |
| meridionalis (Becker), 1922 (Achrdocera), Chrysotus .....     | 40.32 |
| Mesorhaga Schiner, 1868 .....                                 | 40.14 |
| metallica Becker, 1922, Medetera .....                        | 40.19 |
| metallicus Parent, 1934, Chrysotimus .....                    | 40.25 |
| metatarsalis Robinson, 1966, Calychochaetus .....             | 40.40 |
| metatarsalis Robinson, 1964, Microcyrtura .....               | 40.20 |
| metatarsatus Becker, 1922, Chrysotus .....                    | 40.30 |
| mexicana Robinson, 1966, Symbolia .....                       | 40.37 |
| mexicanus (Aldrich), 1901 (Gnamtopsilon), Sciapus .....       | 40.16 |
| mexicanus (Bigot), 1888 (Poecilobothrus), Pelastoneurus ..... | 40.51 |
| mexicanus Robinson, 1967, Chrysotus .....                     | 40.30 |
| mexicanus Van Duzee, 1926, Thinophilus .....                  | 40.58 |
| micidus Parent, 1937, ?Micromorphus .....                     | 40.25 |
| Microchrysotus Robinson, 1964 .....                           | 40.20 |
| Microcyrtura Robinson, 1964 .....                             | 40.20 |
| microgamum (Parent), 1928 (Sympycnus), Stolidosoma .....      | 40.39 |
| Micromorphus Mik, 1878 .....                                  | 40.25 |
| micropygus Parent, 1931, Paraclius .....                      | 40.48 |
| minor (Aldrich), 1896 (Xanthotricha), Thrypticus .....        | 40.21 |
| minor Becker, 1922, Medetera .....                            | 40.19 |
| minor Parent, 1931, Chrysotus .....                           | 40.30 |
| minuticornis Van Duzee, 1927, Chrysotus .....                 | 40.30 |
| minutus Parent, 1932, Sympycnus .....                         | 40.44 |
| minutus Parent, 1929, Thrypticus .....                        | 40.21 |
| mirabilis Robinson, 1964, Microchrysotus .....                | 40.20 |
| mirandus Van Duzee, 1927, Chrysotus .....                     | 40.30 |
| mireciliatum (Parent), 1928 (Condylostylus), Chrysosoma ..... | 40.24 |
| miricornis Parent, 1932, Sympycnus .....                      | 40.44 |
| miripalpus Parent, 1928, Chrysotus .....                      | 40.30 |
| miripennis Parent, 1931, Condylostylus .....                  | 40.9  |
| miripes Parent, 1933, Condylostylus .....                     | 40.9  |



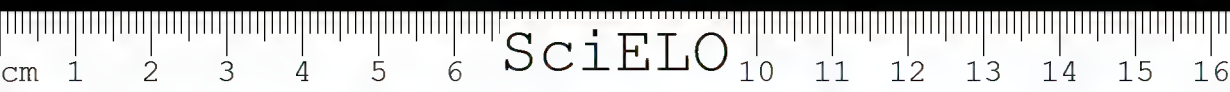


|  |       |
|--|-------|
| <i>niritibia</i> Parent, 1933, <i>Chrysotus</i> .....                                | 40.28 |
| <i>mirus</i> Parent, 1931, <i>Condylostylus</i> .....                                | 40.9  |
| <i>mixtus</i> Parent, 1934, <i>Paraclius</i> .....                                   | 40.48 |
| <i>modestus</i> Parent, 1928, <i>Chrysotus</i> .....                                 | 40.30 |
| <i>modestus</i> Parent, 1934, <i>Paraclius</i> .....                                 | 40.48 |
| <i>moniliventris</i> Parent, 1934, <i>Condylostylus</i> .....                        | 40.9  |
| <i>monticolus</i> Becker, 1919, <i>Sympycnus</i> .....                               | 40.44 |
| <i>morrisoni</i> Van Duzee, 1924, <i>Chrysotus</i> .....                             | 40.30 |
| <i>mundus</i> Loew, 1861, <i>Diaphorus</i> .....                                     | 40.34 |
| <i>mundus</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....      | 40.9  |
| <i>myosotus</i> Osten Sacken, 1887, <i>Dolichopus</i> .....                          | 40.46 |
| <i>Nanomyia</i> Robinson, 1964 .....   | 40.26 |
| <i>nanus</i> Parent, 1928, <i>Chrysotus</i> .....                                    | 40.30 |
| <i>Nematopus</i> Parent, 1933 .....  | 40.40 |
| <i>memoralis</i> (Philippi), 1865 ( <i>Dolichopus</i> ) <i>Sympycnus</i> .....       | 40.44 |
| <i>Neoparentia</i> Robinson, 1967 .....  | 40.40 |
| <i>Neosyntormon</i> Curran, 1934 .....   | 40.41 |
| <i>Neotonnoiria</i> Robinson, nom. nov. ....   | 40.17 |
| <i>neotropicus</i> Parent 1928, <i>Diaphorus</i> .....                               | 40.34 |
| <i>nervosus</i> Becker, 1922, <i>Hydrophorus</i> .....                               | 40.57 |
| <i>Neurigona</i> Rondani, 1856 .....   | 40.17 |
| <i>Neurigoninae</i> .....  | 40.16 |
| <i>niger</i> Aldrich, 1896, <i>Chrysotus</i> .....                                   | 40.30 |
| <i>nigrescens</i> Aldrich, 1901, <i>Diaphorus</i> .....                              | 40.34 |
| <i>nigricans</i> Meigen, 1824, <i>Diaphorus</i> .....                                | 40.34 |
| <i>nigrificiliatus</i> Becker, 1922, <i>Sympycnus</i> .....                          | 40.44 |
| <i>nigricornis</i> (Van Duzee), 1929 ( <i>Polymedon</i> ), <i>Tachytrechus</i> ..... | 40.55 |
| <i>nigricoxa</i> Becker, 1922, <i>Sympycnus</i> .....                                | 40.44 |
| <i>nigrifacies</i> Van Duzee, 1923, <i>Pelastoneurus</i> .....                       | 40.51 |
| <i>nigrihalteralis</i> Van Duzee, 1931, <i>Diaphorus</i> .....                       | 40.34 |
| <i>nigrimanus</i> Van Duzee, 1931, <i>Medetera</i> .....                             | 40.19 |
| <i>nigrimanus</i> Van Duzee, 1914, <i>Sciapus</i> .....                              | 40.16 |
| <i>nigripalpis</i> (Van Duzee), 1930 ( <i>Sympycnus</i> ), <i>Filatopus</i> .....    | 40.40 |
| <i>nigripennis</i> Van Duzee, 1932, <i>Diaphorus</i> .....                           | 40.34 |
| <i>nigripennis</i> (Van Duzee) 1931 ( <i>Eutarsus</i> ), <i>Symbolia</i> .....       | 40.37 |
| <i>nigripes</i> (Aldrich), 1902 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....      | 40.55 |
| <i>nigripes</i> (Macquart), 1842 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....     | 40.9  |
| <i>nigriseta</i> Van Duzee, 1931, <i>Thrypticus</i> .....                            | 40.21 |
| <i>nigritibia</i> Parent, 1934, <i>Pelastoneurus</i> .....                           | 40.51 |
| <i>nigritibia</i> Van Duzee, 1932, <i>Condylostylus</i> .....                        | 40.9  |
| <i>nigromaculata</i> Van Duzee, 1931, <i>Xanthina</i> .....                          | 40.23 |
| <i>nigroterminalis</i> Van Duzee, 1931, <i>Paraclius</i> .....                       | 40.49 |
| <i>nimius</i> (Aldrich), 1901 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....        | 40.55 |
| <i>nitidicauda</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Condylostylus</i> ..... | 40.5  |
| <i>nitidus</i> Van Duzee, 1931, <i>Pelastoneurus</i> .....                           | 40.51 |
| <i>nobilissimum</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Chrysosoma</i> .....     | 40.2  |
| <i>nodicornis</i> Van Duzee, 1930, <i>Pinacocerus</i> .....                          | 40.41 |
| <i>noditarsis</i> Becker, 1922, <i>Sciapus</i> .....                                 | 40.16 |
| <i>notatus</i> (Van Duzee), 1929 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....     | 40.55 |
| <i>Nothosympycnus</i> Wheeler, 1899 .....  | 40.39 |
| <i>Notobothrus</i> Parent, 1931 .....  | 40.18 |
| <i>nubeculum</i> Becker, 1922, <i>Stenopygium</i> .....                              | 40.52 |
| <i>nubeculus</i> Becker, 1922, <i>Condylostylus</i> .....                            | 40.9  |
| <i>nubilipennis</i> (Van Duzee), 1927 ( <i>Psilopus</i> ), <i>Sciapus</i> .....      | 40.16 |



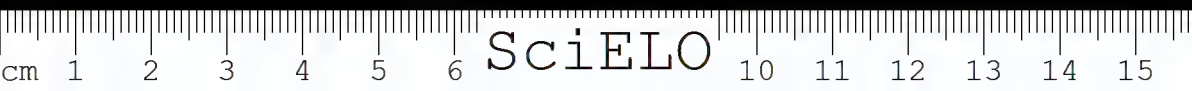
|  |       |
|--|-------|
| nubilum Van Duzee, 1930, <i>Rhaphium</i> .....                                 | 40.38 |
| nudipes Becker, 1922, <i>Condylostylus</i> .....                               | 40.9  |
|  |       |
| oaxacensis Robinson 1964, <i>Microcyrtura</i> .....                            | 40.20 |
| obliquus Loew, 1861, <i>Chrysotus</i> .....                                    | 40.30 |
| oblongus Parent, 1928, <i>Diaphorus</i> .....                                  | 40.34 |
| obscura Robinson, 1967, <i>Harmstonia</i> .....                                | 40.24 |
| obscura Robinson, 1967, <i>Neoparentia</i> .....                               | 40.40 |
| obscuratus Brèthes, 1919, <i>Sympycnus</i> .....                               | 40.44 |
| obscurum Parent, 1931, <i>Stolidosoma</i> .....                                | 40.39 |
| obscurus Robinson, 1967, <i>Chrysotimus</i> .....                              | 40.25 |
| obscurus Van Duzee, 1931, <i>Paraclius</i> .....                               | 40.49 |
| obtectus Becker, 1922, <i>Tachytrechus</i> .....                               | 40.55 |
| obtusus Van Duzee, 1933, <i>Sarcionus</i> .....                                | 40.52 |
| occidentalis (Bigot), 1888 ( <i>Psilopodinus</i> ), <i>Condylostylus</i> ..... | 40.9  |
| occidentalis Schiner, 1868, <i>Medetera</i> .....                              | 40.19 |
| occultus (Becker), 1922 ( <i>Lyroneurus</i> ), <i>Diaphorus</i> .....          | 40.36 |
| ocellatus Parent, 1930, <i>Condylostylus</i> .....                             | 40.9  |
| ochracea Becker, 1922, <i>Symbolia</i> .....                                   | 40.37 |
| ochreifacies Van Duzee, 1931, <i>Pelastoneurus</i> .....                       | 40.51 |
| ochrifacies Van Duzee, 1930, <i>Hydrophorus</i> .....                          | 40.57 |
| ochrifacies Van Duzee, 1924, <i>Thinophilus</i> .....                          | 40.58 |
| Oedematopus Van Duzee, 1929 .....  | 40.57 |
| oedipus Becker, 1922, <i>Condylostylus</i> .....                               | 40.9  |
| oedipus Becker, 1922, <i>Paraclius</i> .....                                   | 40.49 |
| opacus Loew, 1861, <i>Diaphorus</i> .....                                      | 40.34 |
| opulentus Van Duzee, 1930, <i>Paraclius</i> .....                              | 40.49 |
| orbicularis Becker, 1922, <i>Neurigona</i> .....                               | 40.18 |
| ornata Robinson, 1967, <i>Harmstonia</i> .....                                 | 40.24 |
| ornaticauda Van Duzee, 1931, <i>Condylostylus</i> .....                        | 40.9  |
| ornatipes Van Duzee, 1932, <i>Mesorhaga</i> .....                              | 40.14 |
| ornatipes (Van Duzee), 1930 ( <i>Kophosoma</i> ), <i>Peloropeodes</i> .....    | 40.26 |
| ornatus Parent, 1930, <i>Calyxochaetus</i> .....                               | 40.40 |
| ornatus Parent, 1931, <i>Condylostylus</i> .....                               | 40.9  |
| ovalicornis Parent, 1934, <i>Chrysotus</i> .....                               | 40.30 |
| ovata Van Duzee, 1931, <i>Medetera</i> .....                                   | 40.19 |
| ovatus Van Duzee, 1914, <i>Paraclius</i> .....                                 | 40.49 |
|  |       |
| <i>Pachypyga</i> Parent, 1926 .....  | 40.26 |
| pacificus Parent, 1932, <i>Sympycnus</i> .....                                 | 40.44 |
| pallida Robinson, 1967, <i>Harmstonia</i> .....                                | 40.24 |
| pallidicornis Van Duzee, 1929, <i>Medetera</i> .....                           | 40.19 |
| pallidicornis Van Duzee, 1930, <i>Sympycnus</i> .....                          | 40.44 |
| pallidicoxa Parent, 1928, <i>Thrypticus</i> .....                              | 40.22 |
| pallidimanus Van Duzee, 1933, <i>Sympycnus</i> .....                           | 40.44 |
| pallipes Loew, 1861, <i>Chrysotus</i> .....                                    | 40.30 |
| palmaticornis Parent, 1930, <i>Cheirocerus</i> .....                           | 40.46 |
| palparis Becker, 1922, <i>Chrysotus</i> .....                                  | 40.31 |
| palpatus Parent, 1928, <i>Chrysotus</i> .....                                  | 40.31 |
| palpiger (Van Duzee), 1931 ( <i>Sympycnus</i> ), <i>Pseudosympycnus</i> ....   | 40.38 |
| pampecilus (Bigot), 1888 ( <i>Psilopodinus</i> ), <i>Condylostylus</i> .....   | 40.10 |
| panamensis (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....   | 40.10 |

|  |       |
|--|-------|
| <i>panamensis</i> Van Duzee, 1931, <i>Micromorphus</i> .....                           | 40.25 |
| <i>panamensis</i> Van Duzee, 1931, <i>Hercostomus</i> .....                            | 40.46 |
| <i>panamensis</i> Van Duzee, 1929, <i>Thinophilus</i> .....                            | 40.58 |
| <i>Paracleius</i> Bigot, 1859 .....  | 40.49 |
| <i>Paraclius</i> Loew, 1864 .....  | 40.47 |
| <i>paradoxus</i> Aldrich, 1902, <i>Chrysotus</i> .....                                 | 40.31 |
| <i>paraguayensis</i> Parent, 1931, <i>Paraclius</i> .....                              | 40.49 |
| <i>Paraphrosylus</i> Becker, 1922 .....  | 40.56 |
| <i>Parasyntormon</i> Wheeler, 1899 .....   | 40.41 |
| <i>parenti</i> Robinson, nom. nov., <i>Tachytrechus</i> .....                          | 40.55 |
| <i>partitus</i> (Van Duzee), 1929 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....      | 40.55 |
| <i>parvicauda</i> (Van Duzee), 1929 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....    | 40.55 |
| <i>parvipalpus</i> Van Duzee, 1931, <i>Chrysotus</i> .....                             | 40.31 |
| <i>parvulus</i> Aldrich, 1896, <i>Diaphorus</i> .....                                  | 40.34 |
| <i>parvulus</i> Parent, 1930, <i>Paraclius</i> .....                                   | 40.49 |
| <i>parvulus</i> Van Duzee, 1930, <i>Sympycnus</i> .....                                | 40.44 |
| <i>parvulus</i> Van Duzee, 1930, <i>Thrypticus</i> .....                               | 40.22 |
| <i>parvus</i> Van Duzee, 1933, <i>Sciapus</i> .....                                    | 40.16 |
| <i>patagonicus</i> Van Duzee, 1931, <i>Hydrophorus</i> .....                           | 40.57 |
| <i>patellatus</i> Parent, 1928, <i>Sympycnus</i> .....                                 | 40.44 |
| <i>patellifer</i> Parent, 1934, <i>Calyxochaetus</i> .....                             | 40.40 |
| <i>patellitarsis</i> Becker, 1922, <i>Condyllostylus</i> .....                         | 40.10 |
| <i>patellitarsis</i> Becker, 1922, <i>Sympycnus</i> .....                              | 40.44 |
| <i>patibulatus</i> (Say), 1823 ( <i>Dolichopus</i> ), <i>Condyllostylus</i> .....      | 40.10 |
| <i>paulseni</i> Philippi, 1865, <i>Rhaphium</i> .....                                  | 40.38 |
| <i>pauper</i> Parent, 1932, <i>Sympycnus</i> .....                                     | 40.44 |
| <i>pauperculus</i> Parent, 1935, <i>Diaphorus</i> .....                                | 40.34 |
| <i>pectinator</i> Parent, 1930, <i>Condyllostylus</i> .....                            | 40.10 |
| <i>pectinatus</i> Becker, 1922, <i>Condyllostylus</i> .....                            | 40.10 |
| <i>pectinatus</i> Van Duzee, 1929, <i>Pelastoneurus</i> .....                          | 40.51 |
| <i>pectinicauda</i> Robinson, 1964, <i>Harmstonia</i> .....                            | 40.24 |
| <i>pectinicauda</i> Van Duzee, 1934, <i>Sarcionus</i> .....                            | 40.52 |
| <i>pectoralis</i> Van Duzee, 1931, <i>Sciapus</i> .....                                | 40.16 |
| <i>pedestris</i> Becker, 1922, <i>Condyllostylus</i> .....                             | 40.10 |
| <i>pedestris</i> Becker, 1922, <i>Medetera</i> .....                                   | 40.19 |
| <i>Pelastoneurus</i> Loew, 1861 .....  | 40.49 |
| <i>Peloropecodes</i> Wheeler, 1890 .....   | 40.26 |
| <i>Peloropecodinae</i> .....   | 40.24 |
| <i>penicillatus</i> Van Duzee, 1931, <i>Thrypticus</i> .....                           | 40.22 |
| <i>penicilliger</i> (Enderlein), 1912 ( <i>Psilopus</i> ), <i>Condyllostylus</i> ..... | 40.10 |
| <i>pennaticornis</i> Parent, 1931, <i>Cheirocerus</i> .....                            | 40.46 |
| <i>pennatus</i> Parent, 1929, <i>Condyllostylus</i> .....                              | 40.10 |
| <i>pennatus</i> Van Duzee, 1930, <i>Sympycnus</i> .....                                | 40.44 |
| <i>pennifer</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....       | 40.10 |
| <i>peractus</i> (Walker), 1860 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....        | 40.10 |
| <i>peregrinus</i> Parent, 1931, <i>Chrysotus</i> .....                                 | 40.31 |
| <i>permodicus</i> (Walker), 1860 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....      | 40.10 |
| <i>permutans</i> Becker, 1922, <i>Stolidosoma</i> .....                                | 40.39 |
| <i>perornatus</i> Robinson, 1967, <i>Pseudosympycnus</i> .....                         | 40.38 |
| <i>perplexum</i> Parent, 1933, <i>Chrysosoma</i> .....                                 | 40.2  |
| <i>perplexus</i> (Parent), 1931 ( <i>Macellocerus</i> ), <i>Tachytrechus</i> .....     | 40.55 |
| <i>perplexus</i> Van Duzee, 1929, <i>Diaphorus</i> .....                               | 40.36 |
| <i>perspicuus</i> Becker, 1922, <i>Condyllostylus</i> .....                            | 40.10 |
| <i>peruanus</i> Becker, 1922, <i>Paraclius</i> .....                                   | 40.49 |





|  |       |
|--|-------|
| petulans Parent, 1939, <i>Hercostomus</i> .....  | 40.46 |
| <i>Phylarchus</i> Aldrich, 1901 .....  | 40.52 |
| picticornis Loew, 1862, <i>Chrysotus</i> .....   | 40.31 |
| picticornis Van Duzee, 1930 <i>Sympycnus</i> .....                                     | 40.44 |
| pictipes Becker, 1922, <i>Chrysotus</i> .....  | 40.31 |
| pictipes Becker, 1922, <i>Paraclius</i> .....  | 40.49 |
| <i>pilicornis</i> (Aldrich), 1904 ( <i>Psilopodinus</i> ), <i>Condyllostylus</i> ..... | 40.9  |
| pilipes (Macquart), 1842 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....              | 40.10 |
| pilitarsis Becker, 1922, <i>Sympycnus</i> .....  | 40.45 |
| pilosus (Loew), 1861 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....                  | 40.10 |
| <i>Pinacocerus</i> Van Duzee, 1930 .....   | 40.41 |
| <i>Plagioneurinae</i> .....  | 40.38 |
| <i>Plagioneurus</i> Loew, 1857 .....   | 40.38 |
| planipes Van Duzee, 1919, <i>Medetera</i> .....  | 40.19 |
| planipes (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Sciapus</i> .....                   | 40.16 |
| planipes Van Duzee, 1931, <i>Sympycnus</i> .....                                       | 40.45 |
| platychirus Parent, 1932, <i>Sympycnus</i> .....                                       | 40.45 |
| platypus Becker, 1922, <i>Sympycnus</i> .....  | 40.45 |
| platypus Parent, 1931, <i>Tachytrechus</i> .....                                       | 40.55 |
| plebeia Parent, 1928, <i>Medetera</i> .....  | 40.19 |
| plebeius Parent, 1930, <i>Micromorphus</i> .....                                       | 40.25 |
| plumicauda Aldrich, 1902, <i>Xanthina</i> .....  | 40.23 |
| plumicauda Van Duzee, 1931, <i>Pelastoneurus</i> .....                                 | 40.51 |
| plumicornis Van Duzee, 1931, <i>Paraclius</i> .....                                    | 40.49 |
| plumipes (Scopoli), 1763 ( <i>Musca</i> ), <i>Dolichopus</i> .....                     | 40.46 |
| plumitarsis Parent, 1933, <i>Condyllostylus</i> .....                                  | 40.10 |
| plumitarsis Parent, 1931, <i>Hercostomus</i> .....                                     | 40.47 |
| plumosa Parent, 1931, <i>Medetera</i> .....  | 40.19 |
| plumosus Parent, 1934, <i>Pelastoneurus</i> .....                                      | 40.51 |
| plutus Parent, 1929, <i>Condyllostylus</i> .....                                       | 40.10 |
| pollinosa Van Duzee, 1929, <i>Medetera</i> .....                                       | 40.20 |
| pollinosus Van Duzee, 1930, <i>Sympycnus</i> .....                                     | 40.45 |
| poliogaster (Philippi), 1865 ( <i>Hydatostega</i> ), <i>Hydrophorus</i> .....          | 40.57 |
| polychromus (Bigot), 1890 ( <i>Psilopodinus</i> ), <i>Condyllostylus</i> .....         | 40.10 |
| <i>Polymedon</i> Osten Sacken, 1877 .....  | 40.53 |
| <i>Porphyrops</i> , authors .....  | 40.38 |
| <i>Porphyrops</i> Meigen, 1824 .....   | 40.27 |
| portoricensis (Macquart), 1834 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....        | 40.10 |
| posticatus (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....          | 40.10 |
| potens (Parent), 1934 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....                  | 40.55 |
| praecox (Lehman), 1822 ( <i>Dolichopus</i> ), <i>Hydrophorus</i> .....                 | 40.57 |
| praestans (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....             | 40.10 |
| praestans (Parent), 1931 ( <i>Lyroneurus</i> ), <i>Diaphorus</i> .....                 | 40.36 |
| pressitarsis Parent, 1931, <i>Condyllostylus</i> .....                                 | 40.10 |
| pressitibia (Parent), 1931 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....             | 40.55 |
| <i>Proarchus</i> Aldrich, 1910 .....   | 40.52 |
| problematicus Parent, 1930, <i>Hercostomus</i> .....                                   | 40.47 |
| productipes Parent, 1934, <i>Condyllostylus</i> .....                                  | 40.10 |
| proletarius Parent, 1932, <i>Sympycnus</i> .....                                       | 40.45 |
| propinquus Becker, 1922, <i>Diaphorus</i> .....  | 40.34 |
| <i>propinquus</i> Parent, 1929, <i>Condyllostylus</i> .....                            | 40.8  |
| propinquus Parent, 1932, <i>Sympycnus</i> .....  | 40.45 |
| propinquus Wheeler, 1899, <i>Paraclius</i> .....                                       | 40.49 |
| proximus Aldrich, 1896, <i>Chrysotus</i> .....   | 40.31 |
| pruinifrons Parent, 1929, <i>Condyllostylus</i> .....                                  | 40.11 |

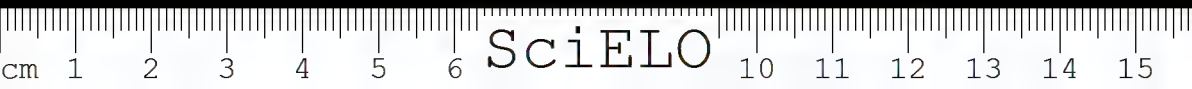




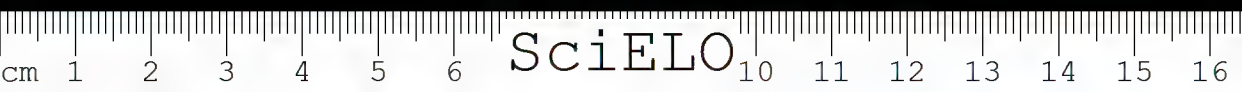
|  |       |
|--|-------|
| <i>pruinus</i> Parent, 1930, <i>Diaphorus</i> .....                                  | 40.34 |
| <i>Pseudargyra</i> Van Duzee, 1930 .....   | 40.36 |
| <i>Pseudosympycnus</i> Robinson, 1967 .....  | 40.38 |
| <i>Psilischium</i> Becker, 1922 .....  | 40.53 |
| <i>Psilopodinae</i> .....  | 40.2  |
| <i>Psilopodinus</i> Bigot, 1888 .....  | 40.14 |
| <i>Psilopus</i> Meigen, 1824 .....   | 40.14 |
| <i>psittacinus</i> (Loew), 1861 ( <i>Psilopus</i> ), <i>Sciapus</i> .....            | 40.16 |
| <i>pteropodus</i> Schiner, 1968, <i>Tachytrechus</i> .....                           | 40.55 |
| <i>pubescens</i> Robinson, 1967, <i>Harmstonia</i> .....                             | 40.24 |
| <i>pulcher</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....    | 40.11 |
| <i>pulchripes</i> Becker, 1922, <i>Condyllostylus</i> .....                          | 40.11 |
| <i>pulchritarsis</i> Van Duzee, 1931, <i>Condyllostylus</i> .....                    | 40.11 |
| <i>pumilio</i> Loew, 1872, <i>Paraclius</i> .....                                    | 40.49 |
| <i>punctiger</i> Philippi, 1865 ( <i>Dolichopus</i> ) .....                          | 40.59 |
| <i>punctipennis</i> (Say), 1829 ( <i>Medeterus</i> ), <i>Pelastoneurus</i> .....     | 40.51 |
| <i>punctumalbum</i> Parent, 1929, <i>Condyllostylus</i> .....                        | 40.11 |
| <i>purpuratus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....   | 40.11 |
| <i>purpureus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....    | 40.11 |
| <i>pusillus</i> Aldrich, 1901, <i>Thrypticus</i> .....                               | 40.22 |
| <i>pusillus</i> (Macquart), 1846 ( <i>Dolichopus</i> ), <i>Sarcionus</i> .....       | 40.52 |
| <i>pygmaeus</i> Parent, 1934, <i>Chrysotus</i> .....                                 | 40.31 |
| <i>quadratus</i> Aldrich, 1901, <i>Syntormon</i> .....                               | 40.45 |
| <i>quadricolor</i> (Walker), 1849 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....   | 40.11 |
| <i>quadrinotatus</i> Aldrich, 1902, <i>Paraclius</i> .....                           | 40.49 |
| <i>radians</i> (Macquart), 1834 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....     | 40.11 |
| <i>raptor</i> Becker, 1922, <i>Systenus</i> .....                                    | 40.22 |
| <i>recta</i> Robinson, 1967, <i>Harmstonia</i> .....                                 | 40.24 |
| <i>regularis</i> Becker, 1922, <i>Hydrophorus</i> .....                              | 40.57 |
| <i>remissus</i> Parent, 1939, <i>Pelastoneurus</i> .....                             | 40.51 |
| <i>retrociliatus</i> Parent, 1931, <i>Condyllostylus</i> .....                       | 40.11 |
| <i>rex</i> Parent, 1929, <i>Condyllostylus</i> .....                                 | 40.11 |
| <i>Rhaphiinae</i> .....  | 40.37 |
| <i>Rhaphium</i> Meigen, 1803 .....   | 40.37 |
| <i>ridiculus</i> Parent, 1931, <i>Asyndetus</i> .....                                | 40.27 |
| <i>robustus</i> (Becker), 1922 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....       | 40.55 |
| <i>rotundicornis</i> Van Duzee, 1931, <i>Sarcionus</i> .....                         | 40.52 |
| <i>rotundicornis</i> Van Duzee, 1931, <i>Syntormon</i> .....                         | 40.45 |
| <i>rubiginosus</i> (Van Duzee), 1929 ( <i>Polymedon</i> ), <i>Tachytrechus</i> ..... | 40.55 |
| <i>rubrocauda</i> Van Duzee, 1931, <i>Condyllostylus</i> .....                       | 40.11 |
| <i>saccicauda</i> Parent, 1934, <i>Condyllostylus</i> .....                          | 40.11 |
| <i>salti</i> (Van Duzee), 1929 ( <i>Psilopus</i> ), <i>Condyllostylus</i> .....      | 40.11 |
| <i>Sarcionus</i> Aldrich, 1901 .....   | 40.52 |
| <i>Saucropus</i> Loew, 1857 .....  | 40.17 |
| <i>sayi</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Sciapus</i> .....              | 40.16 |
| <i>scaura</i> Van Duzee, 1929, <i>Medetera</i> .....                                 | 40.20 |
| <i>schildi</i> Robinson, 1967, <i>Chrysotimus</i> .....                              | 40.25 |
| <i>schildi</i> Robinson, 1967, <i>Neoparentia</i> .....                              | 40.40 |
| <i>schildi</i> Robinson, 1966, <i>Symbolia</i> .....                                 | 40.37 |
| <i>schmidtii</i> Parent, 1954, <i>Chrysosoma</i> .....                               | 40.3  |



|  |       |
|--|-------|
| schmidt Parent, 1928, Thrypticus .....                         | 40.22 |
| schnusei Becker, 1922, Condylostylus .....                     | 40.11 |
| Sciapodinae .....  | 40.2  |
| Sciapus Zeller, 1842 .....                                     | 40.14 |
| scintillans (Loew), 1861 (Psilopus), Sciapus .....             | 40.16 |
| Sciopus, error .....   | 40.14 |
| scutellatus Van Duzee, 1931, Thrypticus .....                  | 40.22 |
| secundus Becker, 1922, Diaphorus .....                         | 40.34 |
| semiciliatus (Van Duzee), 1929 (Psilopus), Condylostylus ..... | 40.11 |
| semicomatum (Van Duzee), 1929 (Psilopus), Chrysosoma .....     | 40.3  |
| seminiger Becker, 1922, Condylostylus .....                    | 40.11 |
| semiplumatus Becker, 1922, Pelastoneurus .....                 | 40.51 |
| serenus Becker, 1922, Condylostylus .....                      | 40.11 |
| setifer Robinson, 1966, Symbolia .....                         | 40.37 |
| setitarsis Van Duzee, 1931, Condylostylus .....                | 40.11 |
| setosa Parent, 1931, Medetera .....                            | 40.20 |
| setosa Robinson, 1965, Discopygiella .....                     | 40.25 |
| setosa Robinson, 1967, Harmstonia .....                        | 40.24 |
| setosus (Curran), 1932 (Aphrosylus), Cymatopus .....           | 40.56 |
| setosus Robinson, 1964, Thrypticus .....                       | 40.22 |
| setosus Van Duzee, 1931, Chrysotus .....                       | 40.31 |
| setosus (Van Duzee), 1931 (Paraclius), Tachytrechus .....      | 40.55 |
| sexsetosus Van Duzee, 1931, Condylostylus .....                | 40.11 |
| shannoni Van Duzee, 1930, Chrysotus .....                      | 40.32 |
| shannoni Van Duzee, 1930, Oedematopus .....                    | 40.57 |
| shannoni (Van Duzee), 1930 (Polymedon), Tachytrechus .....     | 40.55 |
| signifer Aldrich, 1896, Neurigona .....                        | 40.18 |
| similis (Aldrich), 1901 (Psilopus), Condylostylus .....        | 40.11 |
| similis (Aldrich), 1896 (Sympycnus), Peloropeodes .....        | 40.26 |
| simplex (Aldrich), 1896 (Lyroneurus), Diaphorus .....          | 40.36 |
| simplex Becker, 1922, Condylostylus .....                      | 40.11 |
| simplex Robinson, 1967, Harmstonia .....                       | 40.24 |
| simplex Van Duzee, 1929, Paraclius .....                       | 40.49 |
| simulans (Van Duzee), 1929 (Psilopus), Condylostylus .....     | 40.12 |
| singularis (Aldrich), 1896 (Xanthotricha), Thrypticus .....    | 40.22 |
| singularis Becker, 1922, Condylostylus .....                   | 40.12 |
| singularis Parent, 1931, Chrysotus .....                       | 40.31 |
| singularis (Parent), 1934 (Sympycnus), Pseudosympycnus .....   | 40.38 |
| singularis Van Duzee, 1923, Asyndetus .....                    | 40.28 |
| sinuata (Aldrich), 1896 (Eutarsus), Symbolia .....             | 40.37 |
| sinuata (Parent), 1928 (Medetera), Coeloglutus .....           | 40.17 |
| sinuatus (Macquart), 1842 (Psilopus), Condylostylus .....      | 40.12 |
| sinuosa (Parent), 1931 (Cyrtosymbolia), Symbolia .....         | 40.37 |
| sipho (Say), 1823 (Dolichopus), Condylostylus .....            | 40.12 |
| smaragdulus (Wiedemann), 1830 (Psilopus), Condylostylus .....  | 40.12 |
| sodalis Loew, 1861, Diaphorus .....                            | 40.34 |
| soleatus Becker, 1922, Chrysotus .....                         | 40.31 |
| solidus (Walker), 1860 (Psilopus), Condylostylus .....         | 40.12 |
| solitarius d'Andretta, 1952, Hydraphorus .....                 | 40.57 |
| sordidus (Aldrich), 1896 (Achalculus), Enlinia .....           | 40.23 |
| sordidus Van Duzee, 1933, Paraclius .....                      | 40.49 |
| spectabilis Loew, 1861, Diaphorus .....                        | 40.34 |
| spinimanus (Van Duzee), 1927 (Psilopus), Sciapus .....         | 40.16 |
| spinipes Van Duzee, 1924, Chrysotus .....                      | 40.31 |

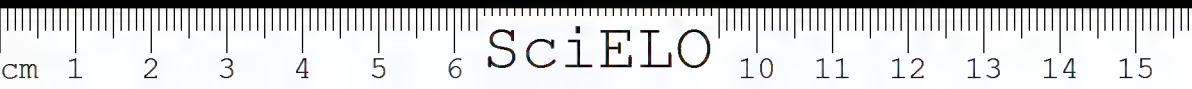


|  |           |
|--|-----------|
| <i>spinipes</i> Van Duzee, 1930, <i>Sympycnus</i> .....                              | 40.45     |
| <i>spinitarsis</i> Van Duzee, 1932, <i>Sympycnus</i> .....                           | 40.45     |
| <i>spinulata</i> Parent, 1931, <i>Medetera</i> .....                                 | 40.20     |
| <i>spinuliger</i> Parent, 1933, <i>Paraclius</i> .....                               | 40.49     |
| <i>spretus</i> Parent, 1934, <i>Thrypticus</i> .....                                 | 40.22     |
| <i>squamifer</i> Becker, 1922, <i>Condylostylus</i> .....                            | 40.12     |
| <i>Stenopygium</i> Becker, 1922 .....  | 40.52     |
| <i>stigma</i> (Fabricius), 1805 ( <i>Dolichopus</i> ), <i>Condylostylus</i> .....    | 40.12     |
| <i>Stolidosoma</i> Becker, 1922 .....  | 40.38     |
| <i>Stolidosominae</i> .....  | 40.38     |
| <i>striaticollis</i> Becker, 1922, <i>Sciapus</i> .....                              | 40.16     |
| <i>striatus</i> Parent, 1928, <i>Pelastoneurus</i> .....                             | 40.51     |
| <i>stylatus</i> Becker, 1922, <i>Paraclius</i> .....                                 | 40.49     |
| <i>suavis</i> (Loew), 1857 ( <i>Lyroneurus</i> ), <i>Diaphorus</i> .....             | 40.36     |
| <i>suavium</i> (Walker), 1849 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....        | 40.12     |
| <i>subapicalis</i> Becker, 1922, <i>Chrysotus</i> .....                              | 40.31     |
| <i>subcordatus</i> Becker, 1922, <i>Condylostylus</i> .....                          | 40.12     |
| <i>subcostatus</i> (Van Duzee), 1931 ( <i>Paraclius</i> ), <i>Tachytrechus</i> ..... | 40.55     |
| <i>subcurva</i> Van Duzee, 1931, <i>Xanthina</i> .....                               | 40.23     |
| <i>subdilatatus</i> Van Duzee, 1930, <i>Sympycnus</i> .....                          | 40.45     |
| <i>subpubescens</i> (Becker), 1922 ( <i>Paraclius</i> ), <i>Tachytrechus</i> .....   | 40.55     |
| <i>subsejunctus</i> Loew, 1866, <i>Diaphorus</i> .....                               | 40.34     |
| <i>Subsympycnus</i> Becker, 1922 .....   | 40.45     |
| <i>sumptuosus</i> Parent, 1929, <i>Condylostylus</i> .....                           | 40.12     |
| <i>superbiens</i> Parent, 1931, <i>Diaphorus</i> .....                               | 40.36     |
| <i>superbus</i> (Aldrich), 1896 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....      | 40.56     |
| <i>superbus</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....    | 40.12     |
| <i>superfluous</i> (Schiner), 1868 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....   | 40.12     |
| <i>surinamensis</i> Parent, 1928, <i>Condylostylus</i> .....                         | 40.12     |
| <i>Symbolia</i> Becker, 1922 .....   | 40.37     |
| <i>Sympycnidelphus</i> Robinson, 1964 .....  | 40.38     |
| <i>Sympycninae</i> .....   | 40.39     |
| <i>Sympycnus</i> Loew, 1857 .....  | 40.41     |
| <i>Synarthrus</i> Loew, 1857 .....   | 40.45     |
| <i>Syntomoneurum</i> Becker, 1922 .....  | 40.58     |
| <i>syntormoides</i> Wheeler, 1899, <i>Asyndetus</i> .....                            | 40.28     |
| <i>Syntormon</i> Loew, 1857 .....  | 40.45     |
| <i>Syntormoneurum</i> , error or emend. ....   | 40.58     |
| <i>Systeminae</i> .....  | 40.22     |
| <i>Systemus</i> Loew, 1857 .....   | 40.22     |
| <br><i>Tachytrechus</i> Haliday, 1851 .....  | <br>40.52 |
| <i>taeniatus</i> Becker, 1922, <i>Pelastoneurus</i> .....                            | 40.51     |
| <i>tarsale</i> (Van Duzee), 1930 ( <i>Stolidosoma</i> ), <i>Pseudargyra</i> .....    | 40.36     |
| <i>tarsalis</i> Robinson, 1964, <i>Microchrysotus</i> .....                          | 40.20     |
| <i>tarsalis</i> Robinson, 1967, <i>Neoparentia</i> .....                             | 40.40     |
| <i>tarsata</i> Parent, 1931, <i>Medetera</i> .....                                   | 40.20     |
| <i>tarsatus</i> Van Duzee, 1932, <i>Condylostylus</i> .....                          | 40.12     |
| <i>teapanus</i> Aldrich, 1902, <i>Chrysotus</i> .....                                | 40.31     |
| <i>Telmaturgus</i> Mik, 1874 .....   | 40.46     |
| <i>tener</i> (Loew), 1862 ( <i>Psilopus</i> ), <i>Sciapus</i> .....                  | 40.16     |
| <i>tenuimanus</i> Van Duzee, 1931, <i>Condylostylus</i> .....                        | 40.12     |
| <i>tenuipes</i> Becker, 1922, <i>Condylostylus</i> .....                             | 40.12     |



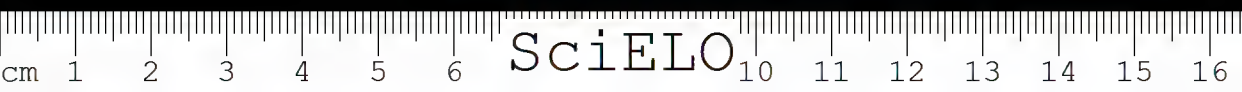


|   |       |
|---|-------|
| <i>tenuipes</i> Becker, 1919, <i>Sympycnus</i> .....                                      | 40.45 |
| <i>tenuipes</i> (Van Duzee), 1924 ( <i>Paraphrosylus</i> ), <i>Aphrosylus</i> .....       | 40.56 |
| <i>tenuipes</i> Van Duzee, 1931, <i>Leptorhethum</i> .....                                | 40.13 |
| <i>tenuis</i> (Van Duzee), 1933 ( <i>Sciapus</i> ), <i>Condylostylus</i> .....            | 40.12 |
| <i>tenuitarsis</i> Van Duzee, 1931, <i>Condylostylus</i> .....                            | 40.12 |
| <i>tenuitarsis</i> Van Duzee, 1930, <i>Sympycnus</i> .....                                | 40.44 |
| <i>terciliatus</i> Parent, 1928, <i>Condylostylus</i> .....                               | 40.12 |
| <i>terminalis</i> Becker, 1922, <i>Condylostylus</i> .....                                | 40.13 |
| <i>terminalis</i> Van Duzee, 1923, <i>Asyndetus</i> .....                                 | 40.28 |
| <i>terminalis</i> Van Duzee, 1929, <i>Paraclius</i> .....                                 | 40.47 |
| <i>terminalis</i> Van Duzee, 1930, <i>Sympycnus</i> .....                                 | 40.45 |
| <i>testaceipes</i> (Rondani), 1848 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....        | 40.12 |
| <i>testipes</i> , error, <i>Condylostylus</i> .....                                       | 40.12 |
| <i>Tetrectus</i> , error .....  | 40.53 |
| <i>Thinophilus</i> Wahlberg, 1844 .....   | 40.58 |
| <i>thoracica</i> Van Duzee, 1931, <i>Neurigona</i> .....                                  | 40.18 |
| <i>thoracicus</i> (Philippi), 1865 ( <i>Chrysotus</i> ), <i>Achalcus</i> .....            | 40.23 |
| <i>thoracicus</i> (Van Duzee), 1930 ( <i>Sympycnus</i> ), <i>Symbolia</i> .....           | 40.37 |
| <i>Thrypticus</i> Gerstaecker, 1864 .....   | 40.21 |
| <i>tibialis</i> Robinson, 1967, <i>Sympycnidelpus</i> .....                               | 40.38 |
| <i>tibialis</i> (Thomson), 1869 ( <i>Anchineura</i> ), <i>Asyndetus</i> .....             | 40.28 |
| <i>tibialis</i> (Wiedemann), 1830 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....         | 40.13 |
| <i>titicaca</i> Becker, 1922, <i>Hydrophorus</i> .....                                    | 40.57 |
| <i>Tonnoiria</i> Parent, 1929 .....   | 40.17 |
| <i>tonsus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....             | 40.13 |
| <i>transversus</i> Van Duzee, 1930, <i>Oedematopus</i> .....                              | 40.57 |
| <i>transversus</i> (Van Duzee), 1929 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....      | 40.56 |
| <i>trapezoides</i> Becker, 1922, <i>Pelastoneurus</i> .....                               | 40.51 |
| <i>triangularis</i> (Aldrich), 1901 ( <i>Polymedon</i> ), <i>Tachytrechus</i> .....       | 40.56 |
| <i>trichosoma</i> (Bigot), 1890 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....           | 40.13 |
| <i>trimaculatus</i> Van Duzee, 1931, <i>Condylostylus</i> .....                           | 40.13 |
| <i>tripartitus</i> (Aldrich), 1901 ( <i>Phylarchus</i> ), <i>Proarchus</i> .....          | 40.52 |
| <i>triseriatus</i> (Aldrich), 1901 ( <i>Psilopus</i> ), <i>Condylostylus</i> .....        | 40.13 |
| <i>tristis</i> Schiner, 1869, <i>Mesorrhaga</i> .....                                     | 40.14 |
| <i>trititarsis</i> Parent, 1928, <i>Medetera</i> .....                                    | 40.20 |
| <i>trivittatus</i> Van Duzee, 1915, <i>Diaphorus</i> .....                                | 40.35 |
| <i>tuberculatus</i> Van Duzee, 1931, <i>Chrysotus</i> .....                               | 40.32 |
| <i>tumantumari</i> Curran, 1925, <i>Condylostylus</i> .....                               | 40.13 |
| <i>tumidipes</i> Becker, 1922, <i>Chrysotus</i> .....                                     | 40.31 |
| <i>turbidus</i> Becker, 1922, <i>Pelastoneurus</i> .....                                  | 40.51 |
| <i>tylophorus</i> (Schiner), 1868 ( <i>Paracleius</i> ), <i>Tachytrechus</i> .....        | 40.56 |
| <i>umbrinervis</i> Parent, 1933, <i>Condylostylus</i> .....                               | 40.13 |
| <i>umbripictus</i> Becker, 1922, <i>Pelastoneurus</i> .....                               | 40.51 |
| <i>unguiculatus</i> (Aldrich), 1896 ( <i>Poecilobothrus</i> ), <i>Pelastoneurus</i> ..... | 40.51 |
| <i>unguipes</i> Becker, 1922, <i>Condylostylus</i> .....                                  | 40.13 |
| <i>unicinctus</i> (Van Duzee), 1927 ( <i>Psilopus</i> ), <i>Sciapus</i> .....             | 40.16 |
| <i>unicolor</i> Becker, 1919, <i>Chrysotus</i> .....                                      | 40.31 |
| <i>unicolor</i> Becker, 1922, <i>Medetera</i> .....                                       | 40.20 |
| <i>unicolor</i> Parent, 1939, <i>Coelinium</i> .....                                      | 40.17 |
| <i>unifasciatus</i> (Say), 1823 ( <i>Dolichopus</i> ), <i>Sciapus</i> .....               | 40.16 |
| <i>unipilus</i> (Van Duzee), 1929 ( <i>Nothosympycnus</i> ), <i>Calyxochaetus</i> ...     | 40.40 |
| <i>uniseriatus</i> Becker, 1922, <i>Condylostylus</i> .....                               | 40.13 |



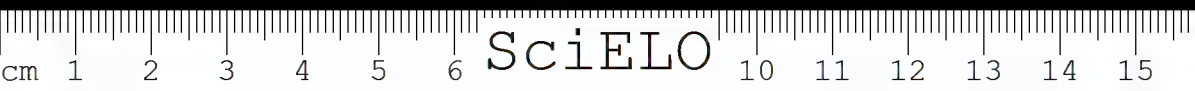


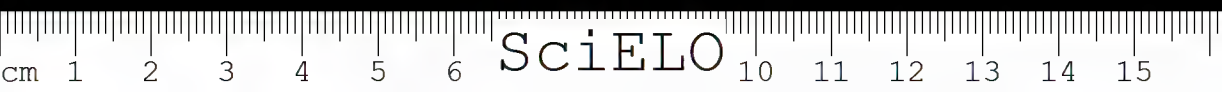
|  |       |
|--|-------|
| uniseta Becker, 1922, Condyllostylus .....                   | 40.13 |
| unispina (Van Duzee), 1931 (Sympycnus), Stolidosoma .....    | 40.39 |
| vagans Becker, 1922, Condyllostylus .....                    | 40.13 |
| vagans Loew, 1861, Pelastoneurus .....                       | 40.51 |
| validus Loew, 1861, Chrysotus .....                          | 40.32 |
| vanduzeei Parent, 1931, Pelastoneurus .....                  | 40.51 |
| Vanduzeeia Parent, 1934 .....                                | 40.56 |
| varicolor Parent, 1932, Sympycnus .....                      | 40.45 |
| variegatus Aldrich, 1901, Pelastoneurus .....                | 40.51 |
| variegatus (Loew), 1861 (Psilopus), Sciapus .....            | 40.16 |
| varipes Aldrich, 1901, Sympycnus .....                       | 40.45 |
| varipes Robinson, 1967, Stolidosoma .....                    | 40.39 |
| varipes Van Duzee, 1929, Diaphorus .....                     | 40.35 |
| varipes Van Duzee, 1929, Medetera .....                      | 40.20 |
| varitibia Van Duzee, 1932, Condyllostylus .....              | 40.13 |
| varum Becker, 1922, Gonioneurum .....                        | 40.46 |
| veliformis Becker, 1922, Condyllostylus .....                | 40.13 |
| velox Parent, 1931, Chrysotus .....                          | 40.31 |
| ventralis Van Duzee, 1915, Diaphorus .....                   | 40.35 |
| venustus Aldrich, 1901, Paraclius .....                      | 40.49 |
| versicolor Johnson, 1924, Asyndetus .....                    | 40.28 |
| versicolor Van Duzee, 1932, Pelastoneurus .....              | 40.51 |
| vicinus Becker, 1922, Diaphorus .....                        | 40.35 |
| vidua (Becker), 1922 (Liancalus), Oedematopus .....          | 40.57 |
| viduus Parent, 1930, Diaphorus .....                         | 40.35 |
| vigilans Becker, 1922, Condyllostylus .....                  | 40.13 |
| villosipes (Parent), 1933 (Condyllostylus), Chrysosoma ..... | 40.3  |
| villosus Parent, 1928, Condyllostylus .....                  | 40.13 |
| violaceum (Van Duzee), 1929 (Argyra), Stolidosoma .....      | 40.39 |
| violaceus (Macquart), 1842 (Psilopus), Condyllostylus .....  | 40.13 |
| violaceus Van Duzee, 1927, Thrypticus .....                  | 40.22 |
| viridicolor Becker, 1922, Medetera .....                     | 40.20 |
| viridis Becker, 1922, Chrysotus .....                        | 40.31 |
| viridis Van Duzee, 1913, Neurigona .....                     | 40.18 |
| viridiventris Van Duzee, 1933, Medetera .....                | 40.20 |
| viridus Van Duzee, 1931, Paraclius .....                     | 40.49 |
| viduus Loew, 1864, Chrysotus .....                           | 40.30 |
| wheeleri Aldrich, 1901, Parasyntormon .....                  | 40.41 |
| willistoni Van Duzee, 1931, Diaphorus .....                  | 40.36 |
| willistoni (Wheeler), 1890 (Aphantotimus), Thrypticus .....  | 40.22 |
| Xanthina Aldrich, 1902 .....                                 | 40.23 |
| Xanthochlorinae .....  | 40.22 |
| Xanthotricha Aldrich, 1896 .....                             | 40.21 |
| xanthotricha Becker, 1922, Medetera .....                    | 40.20 |
| xerophila Robinson, 1965, Discopygiella .....                | 40.25 |
| Xiphandrium Loew, 1857 .....                                 | 40.37 |



SUBORDER CYCLORRHAPHA

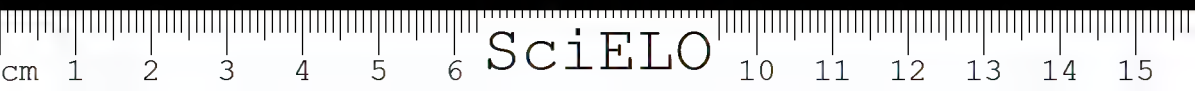
DEPARTAMENTO DE ZOOLOGIA  
BIBLIOTECA  
Secretaria da Agricultura



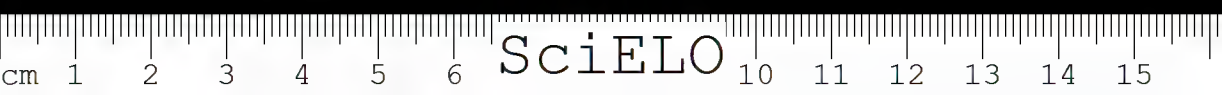


SciELO

DIVISION ASCHIZA



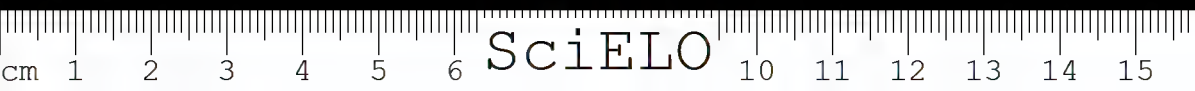


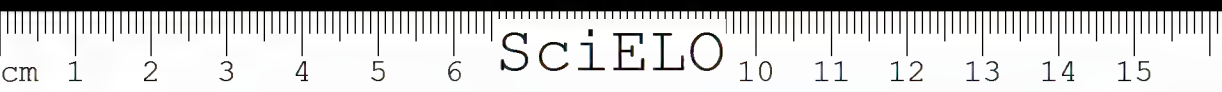


SciELO

SUPERFAMILY LONCHOPTEROIDEA

Family Lonchopteridae





SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

41

FAMILY LONCHOPTERIDAE

NELSON PAPAVERO

*Departamento de Zoologia, Secretaria da Agricultura  
São Paulo, Brasil*

This family is represented by a single species, occurring in Chile. This species is parthenogenetic and has been studied by Stalker (1956).

Genus LONCHOPTERA Meigen

*Musidora* Meigen, 1800:30. Type-species, *Lonchoptera lutea* Panzer (Coquillett, 1910:377). Suppressed by I.C.Z.N., 1963:339.

LONCHOPTERA Meigen, 1803:272. Type-species, *lutea* Panzer (sub. mon., Panzer, 1809:20).

FURCATA (Fallén), 1823:1 (*Dipsa*). Type-locality: "Europe". Distr. — Europe, North America, Chile, Argentina (world-wide). Ref. — Hardy, 1952:458.

*dubia* Curran, 1934:4. Type-locality: U.S.A., New York, Cold Spring Harbor, Long Island.

LITERATURE CITED

COQUILLETT, D. W.

1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.

CURRAN, C. H.

1934. The North American Lonchopteridae (Diptera). *Amer. Mus. Nov.* 696:1-7.

---

Published under the auspices of the "Fundação de Amparo à Pesquisa do Estado de São Paulo."

41.1



FALLÉN, C. F.

1823. *Phytomyzides et Ochtidae Sveciae*, 10 pp., Lund.

HARDY, D. E.

1952. Additions and corrections to Bryan's check list of the Hawaiian Diptera. *Proc. Hawaii. Ent. Soc.* 14 (1951):443-484d.

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

1963. Opinion 678. The suppression under the Plenary Powers of the pamphlet published by Meigen, 1800. *Bull. Zool. Nomencl.* 20: 339-342.

MEIGEN, J. W.

1800. *Nouvelle classification des mouches à deux ailes (Diptera L.) d'après un plan tout nouveau*, 40 pp., Paris.

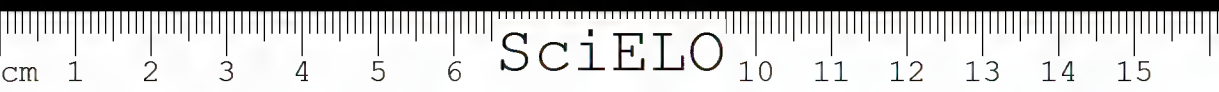
1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügelige Insekten. *Mag. f. Insektenkunde* 2:259-281.

PANZER, G. W. F.

1809. *Faunae insectorum germanicae initae oder Deutschlands Insekten* 108:24 pp., 24 pls., Nürnberg.

STALKER, H. D.

1956. On the evolution of parthenogenesis in *Lonchoptera* (Diptera). *Evolution* 10:345-359, 2 figs.

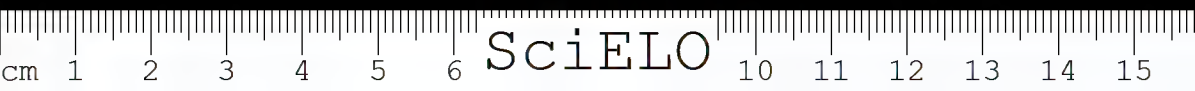


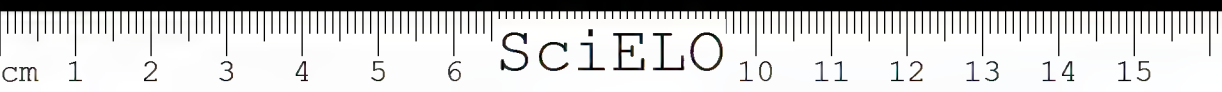
SUPERFAMILY PHOROIDEA

Family Sciadoceridae

Family Phoridae

Family Platypezidae





SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

42

## FAMILY SCIADOCERIDAE

NELSON PAPAVERO

*Departamento de Zoologia, Secretaria da Agricultura  
São Paulo, Brasil*

Only one species of this family is known to occur in the Neotropical region. The adults are found in forested regions, especially in *Nothophagus* forests. The biology and immature stages of an Australian species, *Sciadocera rufomaculata* White have been studied by Fuller (1934). Hennig (1964) has published an account of the geographical distribution and phylogenetic relationships of the group.

## Genus ARCHIPHORA Schmitz

*Sciadocera*, subgenus ARCHIPHORA Schmitz, 1929:9. Type-species, *patagonica* (orig. des.).

PATAGONICA Schmitz, 1929:10, figs. 1a, 2a-b. Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Chile (Peulla), Argentina (Rio Negro).

## LITERATURE CITED

HENNIG, W.

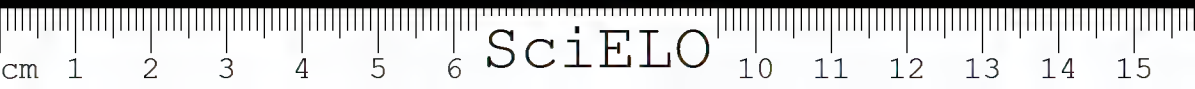
1964. Die Dipteren-Familie Sciadoceridae im baltischen Bernstein (Diptera: Cyclorrhapha Aschiza). *Stuttgarter Beitr. z. Naturkunde* 127:1-10, 13 figs.

FULLER, M. E.

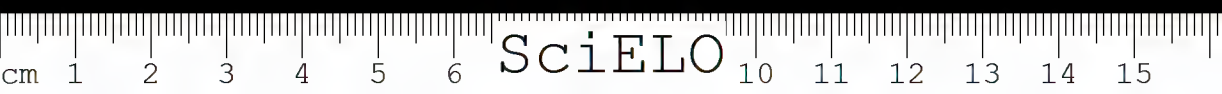
1934. The early stages of *Sciadocera rufomaculata* White (Dipt. Phoridae). *Proc. Linn. Soc. N. S. Wales* 59:9-15, 8 figs.

SCHMITZ, H.

1929. Sciadoceridae and Phoridae, in *Diptera of Patagonia and South Chile* 6:1-42. British Museum (Nat. Hist.), London.





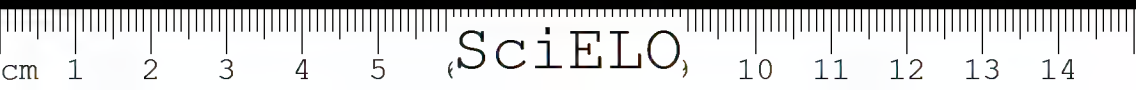


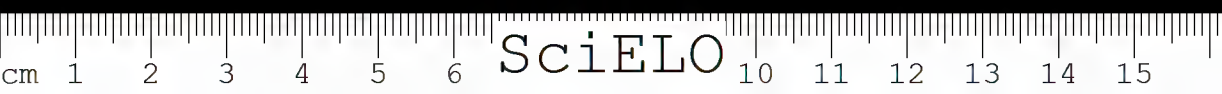
SUPERFAMILY SYRPHOIDEA

Family Pipunculidae

Family Syrphidae

Family Conopidae





DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

45

## FAMILY PIPUNCULIDAE \*

(DORILAIIDAE)

D. ELMO HARDY

*Senior Professor and Chairman  
Department of Entomology  
University of Hawaii  
Honolulu, Hawaii*

The Pipunculidae ("big-eyed flies") are parasitic on Cicadellidae, Delphacidae and possibly Cercopidae and some other families of Homoptera. They are evidently of considerable importance as an aid in control of some pest leafhopper species. Very little information is available concerning the hosts of Neotropical species.

Approximately 550 species are known for the entire world. 112 species and one subspecies are known from the Neotropics. Little or nothing is known about these flies over vast portions of this Region and the Neotropical fauna probably consists of at least 300 species.

## Subfamily CHALARINAE

Genus CHALARUS Walker

CHALARUS Walker, 1834:269. Type-species, *Cephalops spurius* Fallén (Westwood, 1840:135).

*Atelenevra* Macquart, 1834:356 (nec *Ateleneura* Bezzi, 1904:166). Type-species, *Pipunculus holosericeus* Meigen (mon.).

SPURIUS SPURIUS (Fallén), 1816:16 (*Cephalops*). Type-locality: Scandinavia. Distr. — Widespread over much of the world.

ssp. CHILINSIS Collin, 1931a:52, fig. 14. Type-locality: Argentina, Rio Negro, Bariloche.

\* Published with the approval of the Director of the Hawaii Agricultural Experiment Station as Miscellaneous Paper No. 186.



Subfamily PIPUNCULINAE

Tribe PROTONEPHROCERINI

Genus PROTONEPHROCERUS Collin

PROTONEPHROCERUS Collin, 1931a:52. Type-species, *chiloensis* Collin (orig. des.).

CHILOENSIS Collin, 1931a:52, figs. 15a-b. Type-locality: Chile, Ancud. Distr. — Chile.

Tribe PIPUNCULINI

Genus PIPUNCULUS Latreille

*Dorilas* Meigen, 1800:31. Type-species, *campestris* Latreille. (Coquillett, 1910:535). Suppressed by I.C.Z.N., 1963:339.

*Dorylas*, emend.

PIPUNCULUS Latreille, 1802:463. Type-species, *campestris* Latreille (mon.).

*Microcera* Meigen, 1803:275 (partim; no species).

*Cephalops* Fallén, 1810:10. Type-species, *aeneus* Fallén (mon.) = *pratorum* (Fallén).

*Alloneura* Rondani, 1856:140. Type-species, *Pipunculus flavipes* Meigen (mon.). Suppressed by I.C.Z.N., 1961:230.

*Collinias* Aczél, 1940:151. Type-species, *Pipunculus heterostigmus* Perkins (Hardy, 1950b:6).

Subgenus CEPHALOSPHAERA Enderlein

CEPHALOSPHAERA Enderlein, 1936:129 (as genus). Type-species, *Pipunculus furcatus* Egger (mon.).

*Strandimyza* Duda, 1940:216. Type-species, *furcata* Egger (mon.) (Aczél, 1948:73).

*Anacephalops* Aczél, 1940:151. Type-species, *Pipunculus amboinalis* Walker (orig. des.). N. SYN. [based upon study of type in British Museum (Natural History)].

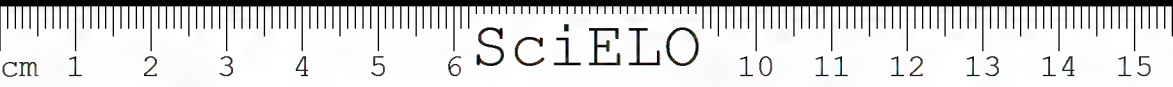
*Dorilas* (*Cephalosphaera*) Enderlein; Hardy, 1950b:11.

AEQUATORIALIS Becker, 1919:167. Type-locality: Ecuador, Narihuma. Distr. — Ecuador. [generic placement?; Becker indicated the stigma is absent. Aczél, 1948:78, placed this in *Anacephalops* = *P.* (*Cephalosphaera*), N. SYN.].

BOUTROPIS Hardy, 1965a:201, figs. 1a-c. Type-locality: Argentina, Tucumán, Burruyacu, Villa Padre Monti. Distr. — Argentina.

ELEGANTULUS Williston, 1892:86. Type-locality: Mexico, Guerrero. Distr. — Mexico.

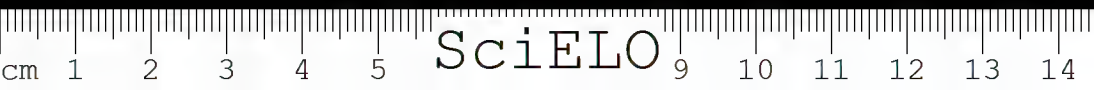
JAMAICENSIS Johnson, 1919:433. Type-locality: "Jamaica". Distr. — Jamaica.



- INCOMITATUS Hardy, 1965:204, figs. 2a-d. Type-locality: Argentina, Tucumán, Burruyacu, Villa Padre Monti. Distr. — Argentina.
- MOCAENSIS (Hardy), 1948a:127, figs. 4a-b (*Dorilas*). Type-locality: West Indies, Moca, Guatalou. Distr. — West Indies.
- PANAMAENSIS (Hardy), 1948b:8, figs. 6a-d (*Cephalosphaera*). Type-locality: Panama, Canal Zone, Barro Colorado Is. Distr. — Panama. Ref. — Hardy, 1965b:14, figs. 1a-c.

### Subgenus EUDORYLAS Aczél

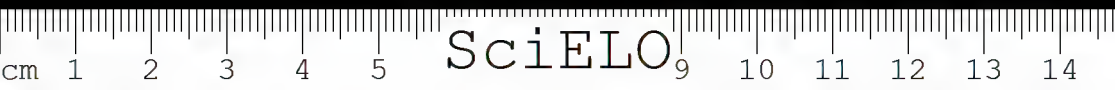
- EUDORYLAS Aczél, 1940:151 (as genus). Type-species, *Pipunculus opacus* Fallén (orig. des.).
- Dorilas* (*Eudorylas*) Aczél; Hardy, 1943:55.
- AELUS (Hardy), 1954a:12, figs. 1a-c (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Brazil.
- ABSONDITUS (Hardy), 1954a:14, figs. 2a-b (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Colombia, Brazil. Ref. — Hardy, 1963:263, figs. 2a-c.
- ACCEDENS (Hardy), 1954a:15, fig. 3 (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Paineiras. Distr. — Brazil.
- ADUNATUS Hardy, 1965b:25, figs. 7a-d. Type-locality: Brazil, São Paulo, Vera Cruz, Fazenda Santa Rosa. Distr. — Brazil.
- AMAZONUS (Hardy), 1950a:433, figs. 1a-c (*Dorilas*). Type-locality: Brazil, Amazonas. Distr. — Brazil.
- ANGUSTIPRONS Becker, 1900:246. Type-locality: "Peru". Distr. — Peru.
- ARGENTATUS (Hardy), 1954a:17, figs. 4a-c (*Dorilas*). Type-locality: Brazil, Mato Grosso, Salobra. Distr. — Brazil.
- ATTENUATUS Hardy, 1965b:28, fig. 8c. Type-locality: Brazil, Rio de Janeiro, Itatiaia, Maromba. Distr. — Brazil.
- BARRETOI Hardy, 1965b:28, figs. 9a-c. Type-locality: Brazil, Rio de Janeiro, Itatiaia, Maromba. Distr. — Brazil.
- BARUERIENSIS Hardy, 1965b:30, figs. 10a-c. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil.
- BRUNNIPENNIS Becker, 1900:248. Type-locality: "Peru". Distr. — Peru.
- BUSCKI Malloch, 1912a:3. Type-locality: Panama, Taboga Is. Distr. — Possibly widespread over neotropics: Panama, Ecuador, Brazil. Ref. — Hardy, 1948a:124, figs. 1a-c.
- CARRERA (Hardy), 1950a:434, figs. 2a-d (*Dorilas*). Type-locality: Brazil, São Paulo, Capital. Distr. — Brazil. Ref. — Hardy, 1954a:18, figs. 5a-b.
- CONGRUENS (Hardy), 1950a:437, figs. 3a-c (*Dorilas*). Type-locality: Brazil, São Paulo, Capital, Cantareira. Distr. — Brazil.
- CRESSONI Johnson, 1919:433. Type-locality: Jamaica, Montego Bay. Distr. — Jamaica. Ref. — Hardy, 1954b:124, figs. 5a-b.
- CURVATUS (Hardy), 1954a:20, figs. 6a-c (*Dorilas*). Type-locality: Brazil, Minas Gerais, Cambuquira. Distr. — Brazil, Argentina. Ref. — Hardy, 1965a:207, figs. 3b-c.



- CUSPICORNIS Kertész, 1915:386 (new name for *acuticornis* Malloch, 1912).  
Type-locality: Panama, Taboga Is. Distr. — Panama. (In *Eudorylas* by Aczél, 1952:243).
- acuticornis* Malloch, 1912a:2 (nec Zeller, in litt., apud Zetterstedt, 1849:3207).
- DEVIUS Hardy, 1965a:208, figs. 4a-c. Type-locality: Argentina, Salta, Embarcación. Distr. — Argentina.
- DEXTRATUS Hardy, 1965a:210, figs. 5a-e. Type-locality: Argentina, Salta, Tartagal. Distr. — Argentina.
- DISCANTHUS Hardy, 1965b:32, fig. 10d. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil, Argentina. Ref. — Hardy, 1965a: figs. 6a-b.
- DISCREGUS Hardy, 1965a:213, figs. 6c-e. Type-locality: Argentina, Tucumán, Burruyacu, Villa Padre Monti. Distr. — Argentina.
- DOELLOI Shannon, 1927:37. Type-locality: Argentina, Tucumán, Tafi Viejo. Distr. — Brazil, Argentina. Refs. — Hardy, 1953:301, figs. 5, 6; 1965b:33, figs. 11a-d.
- DORSISPINOSUS Hardy, 1965a:215, figs. 7a-e. Type-locality: Argentina, Tucumán, Burruyacu, Villa Padre Monti. Distr. — Argentina.
- DUMICOLUS Hardy, 1963:265, figs. 2d-f. Type-locality: Colombia, Nariño, Pedregal. Distr. — Colombia.
- EMINULUS Hardy, 1965b:35, figs. 12a-d. Type-locality: Brazil, Minas Gerais, Arceburgo. Distr. — Brazil.
- EREMITUS (Hardy), 1954a:21, figs. 7a-b (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Manguinhos. Distr. — Brazil. Ref. — Hardy, 1965b:37, fig. 13a.
- EXSERTUS Hardy, 1965b:37, fig. 13b. Type-locality: Brazil, Rio de Janeiro, Itatiaia, Maromba. Distr. — Brazil.
- FLAVITARSIS Williston, 1892:87. Type-locality: Mexico, Guerrero. Refs. — Hardy, 1953:86; Aczél, 1952:243 (treats it as *Eudorylas*).
- GOLBACHI Hardy, 1965a:218, figs. 8a-e. Type-locality: Argentina, Tucumán, Burruyacu, Villa Padre Monti. Distr. — Argentina.
- GOMESI (Hardy), 1954a:22, figs. 8a-b (*Dorilas*). Type-locality: Brazil, Minas Gerais, Cambuquira. Distr. — Brazil. Ref. — Hardy, 1965b:39, fig. 14a.
- GOWDEYI Curran, 1928:36. Type-locality: "Jamaica". Distr. — Jamaica. (In *Eudorylas* by Aczél, 1948:26).
- GRATIOSUS Kertész, 1915:391, figs. 5a-b. Type-locality: "Paraguay". Distr. — Paraguay. Ref. — Aczél, 1952:244.
- INEPTUS (Hardy), 1954a:24, figs. 9a-c (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Brazil.
- INERMUS (Hardy), 1954a:26, figs. 10a-b (*Dorilas*). Type-locality: Brazil, Minas Gerais, Cambuquira. Distr. — Brazil.
- INSIGNIS (Hardy), 1954a:27, figs. 11a-b (*Dorilas*). Type-locality: Brazil, Minas Gerais, Cambuquira. Distr. — Brazil, Argentina.
- INTERRUPTUS Malloch, 1912a:1. Type-locality: Panama, Taboga Is. Distr. — Panama. Ref. — Hardy, 1948a:126, figs. 2a-b.
- LANEI Hardy, 1965b:39, figs. 14b-d. Type-locality: Brazil, Território do Amapá, Serra do Navio. Distr. — Brazil.



- LINDNERI Collin, 1931b:174, fig. 3. Type-locality: Bolivia, Santa Cruz de la Sierra, Mediomonte. Distr. — Bolivia. Refs. — Aczél, 1948:25; 1952:244.
- LIVIDUS (Hardy), 1954a:28, figs. 12a-b (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil.
- LONGIPILUS (Hardy), 1948a:126, figs. 3a-b (*Dorilas*). Type-locality: Ecuador, Pichincha. Distr. — Ecuador.
- LOPESI (Hardy), 1954a:31, figs. 13a-b (*Dorilas*). Type-locality: Brazil, Minas Gerais, Belo Horizonte. Distr. — Brazil.
- MEXICANUS (Hardy), 1949:133, figs. 3a-b (*Dorilas*). Type-locality: Mexico, Coahuila, Saltillo. Distr. — Mexico.
- NIGRIPEDES (Hardy), 1954a:32, figs. 14a-c (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Brazil, Argentina. Ref. — Hardy, 1965b:41, figs. 13c-d.
- OCCULTUS (Hardy), 1950a:440, figs. 4a-c (*Dorilas*). Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil. Refs. — Hardy, 1954a:33, figs. 15a-c; 1965b:41, figs. 15a-d.
- OPINATUS (Hardy), 1950a:440, figs. 5a-c (*Dorilas*). Type-locality: Brazil, São Paulo, Capital, Cidade Jardim. Distr. — Brazil. Ref. — Hardy, 1965b:43, figs. 16d-e.
- OPIPARUS (Hardy), 1954a:34, figs. 16a-d (*Dorilas*). Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil, Argentina.
- PARTICEPS (Hardy), 1954a:37, figs. 17a-c (*Dorilas*). Type-locality: Brazil, Minas Gerais, Cambuquira. Distr. — Brazil, Argentina. Ref. — Hardy, 1965b:43, fig. 16f.
- PARTITUS Hardy, 1965b:44, figs. 16a-c. Type-locality: Brazil, Minas Gerais, Arceburgo. Distr. — Brazil.
- PECTITIBIALIS (Hardy), 1954a:38, figs. 18a-e (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Brazil, Argentina. Ref. — Hardy, 1965b:45, figs. 17a-b.
- PLATYPODUS (Hardy), 1950a:442, figs. 6a-d (*Dorilas*). Type-locality: Brazil, Amazonas. Distr. — Brazil.
- REGALIS Van Duzee, 1928:43. Type-locality: "Puerto Rico". Distr. — Puerto Rico, Virgin Is. Ref. — Hardy, 1954a:3, 5.
- REPLICATUS (Hardy), 1948b:2, figs. 2a-b (*Dorilas*). Type-locality: Panama, Canal Zone, Barro Colorado Is. Distr. — Panama.
- REX Curran, 1934:416. Type-locality: British Guiana, Bartica, Kartabo Distr. — British Guiana. Refs. — Hardy, 1948a:128, figs. 5a-e; 1965b:47, fig. 17c.
- ROTUNDICORNIS (Hardy), 1954a:41, figs. 19a-c (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil.
- SCHREITERI Shannon, 1927:37. Type-locality: Argentina, Tucumán, Raco. Distr. — Brazil, Bolivia, Chile, Argentina. Refs. — Hardy, 1953:303, figs. 7-9; 1965b:47, fig. 18a.
- simulator* Collin, 1931a:56, fig. 17b. Type-locality: Chile, Ancud. Ref. — Collin, 1931b:173, figs. 2, 5b-c.
- SCOLIOSTYLIS Hardy, 1965b:47, figs. 18b-e. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil.

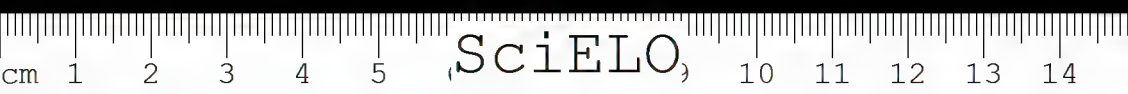




- SCOTINUS Collin, 1931a:60, fig. 18c. Type-locality: Argentina, Misiones, Bompland. Distr. — Brazil, Argentina. Refs. — Hardy, 1954a:42, figs. 20a-b; 1965b:50, figs. 19a-b.
- SIMILIS (Hardy), 1950a:443, figs. 7a-c (*Dorilas*). Type-locality: Brazil, São Paulo, Peruibe. Distr. — Brazil. Ref. — Hardy, 1965b:50, fig. 19c.
- SPINITIBIALIS (Hardy), 1954a:44, figs. 21a-c (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil, Argentina. Ref. — Hardy, 1965b:51, fig. 19d.
- ventosus* Hardy, 1954a:47, figs. 23a-b (*Dorilas*). Type-locality: Brazil, Rio de Janeiro, Rezende. Ref. — Hardy, 1965b:56, fig. 21d.
- SPINOSUS (Hardy), 1948b:4, figs. 3a-c (*Dorilas*). Type-locality: Costa Rica, Hamburg Farm. Distr. — Costa Rica, Brazil. Refs. — Hardy, 1954b:126; 1965b:52, figs. 17d-e.
- SUBJECTUS Collin, 1931b:171, fig. 1. Type-locality: Bolivia, Villa Montes. Distr. — Brazil, Bolivia, Argentina. Ref. — Hardy, 1965a:225, figs. 10a-c.
- SUBNITELLUS Hardy, 1965b:52, figs. 20a-d. Type-locality: Brazil, Minas Gerais, Arceburgo. Distr. — Brazil.
- SUBOPACUS Loew, 1865:176. Type-locality: Washington. Distr. — Canada, U.S.A., Mexico. Ref. — Hardy, 1943:117, figs. 62a-e.
- TRINIDADENSIS (Hardy), 1948b:7, figs. 5a-c (*Dorilas*). Type-locality: Trinidad, Port of Spain. Distr. — Trinidad.
- TROPIDOAPEX Hardy, 1965b:54, figs. 21a-c. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.
- TUCUMANUS Shannon, 1927:37. Type-locality: Argentina, Tucumán, Quebrada de Lules. Distr. — Brazil, Argentina. Refs. — Hardy, 1963:305, figs. 10-12; 1965a:226, figs. 11a-d.

#### Subgenus PIPUNCULUS Latreille

- BRASILIENSIS (Hardy), 1950a:444, figs. 8a-d (*Dorilas*). Type-locality: Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. — Brazil.
- CALLISTUS (Hardy), 1954a:50, figs. 24a-c (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Gávea. Distr. — Brazil.
- FEREPAUCULUS Hardy, 1965a:230, figs. 12b-e. Type-locality: Argentina, Tucumán, Tafi Viejo, Quebrada La Toma. Distr. — Argentina.
- LATIFRONS (Hardy), 1948b:1, figs. 1a-b (*Dorilas*). Type-locality: Jamaica, Whitfield Hall, Blue Mts. Distr. — Jamaica.
- LIMATUS Hardy, 1965b:16, figs. 2a-d. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil, and possibly Argentina. Ref. — Hardy, 1965a:230, fig. 13a.
- NITIDUS (Hardy), 1950a:447, figs. 9a-b (*Dorilas*). Type-locality: Brazil, São Paulo, Cantareira, Chapadão. Distr. — Brazil. Ref. — Hardy, 1965b:18, figs. 3d-e.
- PAGANUS Hardy, 1965b:19, figs. 4a-e. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil.



- PAUCULUS (Hardy), 1954a:51, figs. 25a-b (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Gávea. Distr. — Brazil, and probably Argentina. Ref. — Hardy, 1965b:21, figs. 3a-c.
- PENEPauculus Hardy, 1965a:232, figs. 13b-d. Type-locality: Argentina, Tucumán, Tafí Viejo, Quebrada La Toma. Distr. — Argentina.
- PLAUMANNI (Hardy), 1954b:121, figs. 1a-d (*Dorilas*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil.
- POSTICUS Collin, 1931a:59, figs. 17c, 18a. Type-locality: Chile, Santiago, Los Andes. Distr. — Chile.
- RAVILATERALIS Hardy, 1965a:234, figs. 14a-d. Type-locality: Argentina, Tucumán, Burruyacu, Villa Padre Monti. Distr. — Argentina.
- STYGIUS (Hardy), 1948b:5, figs. 4a-c (*Dorilas*). Type-locality: Jamaica, Moneague. Distr. — Jamaica.
- VILLIFEMORALIS (Hardy), 1954a:53, figs. 26a-d (*Dorilas*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Brazil. Ref. — Hardy, 1965b:21, figs. 5a-b.
- WILLIAMSI (Hardy), 1954a:54, figs. 27a-c (*Dorilas*). Type-locality: Brazil, Rio de Janeiro, Rezende. Distr. — Brazil. Ref. — Hardy, 1965b:21, figs. 6a-d.

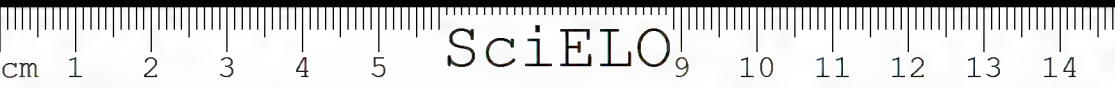
#### Genus PIPUNCULUS (subgenus?)

- ALBINUS Wiedemann, 1830:650. Type-locality: "Brazil". Distr. — Brazil.
- PERUENSIS (Hardy), 1947:147 (*Dorilas*). Change of name for *umbrinus* Becker. Becker's specimen was from Peru, no locality or type were designated. Distr. — Peru. Ref. — subgenus *Pipunculus* according to Aczél, 1952:241.
- umbrinus* Becker, 1900:254, nec Loew, 1860:282.
- RUBIDUS (Hardy), 1948a:129, figs. 6a-b (*Dorilas*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil. Ref. — placed in *Eudorylas* by Aczél, 1952:245.
- WILLISTONI Kertész, 1900:244. Change of name for *aculeatus* Williston. Type-locality: Mexico, Tabasco. Distr. — Mexico, West Indies, St. Vincent. Ref. — Hardy, 1943:126.
- aculeatus* Williston, 1896:351, nec Loew, 1857:375.

#### Tribe TOMOSVARYELLINI

##### Genus ALLOMETHUS Hardy

- ALLOMETHUS Hardy, 1943:128. Type-species, *brimleyi* Hardy (orig. des.).
- FLAVICORNIS (Williston), 1892:88 (*Pipunculus*). Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico. Ref. — Hardy, 1943:129, pl. 11, fig. 69a.
- XANTHOPODUS (Williston), 1892:87 (*Pipunculus*). Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas. Distr. — Mexico. Ref. — Hardy, 1943:130, pl. 11, fig. 70a.



# Genus DORYLOMORPHA Aczél

*Tomosvaryella*, subg. DORYLOMORPHA Aczél, 1939:22. Type-species, *Pipunculus rufipes* Meigen (orig. des.).

- LAETA (Becker), 1900:249 (*Pipunculus*). Type-locality: "Peru". Distr. --- Peru.
- LENKOI Hardy, 1965b:59, figs. 23a-e. Type-locality: Brazil, São Paulo, Barueri. Distr. --- Brazil.
- REVELOI Hardy, 1963:259, figs. 1a-d. Type-locality: Colombia, Boyaca, Bonza. Distr. --- Colombia.

# Genus TOMOSVARYELLA Aczél

TOMOSVARYELLA Aczél, 1939:22. Type-species, *Pipunculus sylvaticus* Meigen (orig. des.).

- BIDENS (Cresson), 1911:320 (*Pipunculus*). Type-locality: U.S.A., California, Yosemite Valley. Distr. --- Southern half of United States, Mexico to Brazil. Ref. --- Hardy, 1965b:64, figs. 25a-d.
- GALAPAGENSIS (Curran), 1934:152 (*Pipunculus*). Type-locality: Galapagos Is. (Albermale, Gardner, Hood, Charles and James Is.). Distr. --- Galapagos.
- LEPIDIPES Hardy, 1943:166, figs. 92a-e. Type-locality: U.S.A., Nevada, Fallon. Distr. --- widespread over the Nearctic and Neotropical regions.
- LYNCHI (Shannon), 1927:38 (*Pipunculus*). Type-locality: Argentina, Tucumán, Quebrada de Lules. Distr. --- Brazil, Argentina. Refs. --- Hardy, 1953:300, figs. 1-4; 1965a:236, figs. 15a-c.
- MEDIOCRIS (Collin), 1931a:54, fig. 16a (*Pipunculus*). Type-locality: Chile, Casa Pangué. Distr. --- Chile and possibly Argentina. Ref. --- Hardy, 1965a:238, fig. 16a.
- ORNATITARSALIS Hardy, 1954a:57, figs. 28a-e. Type-locality: Brazil, São Paulo, Campinas. Distr. --- Brazil.
- PERISSOSCELES Hardy, 1965a:238, figs. 16b-f. Type-locality: Argentina, Jujuy, Sierra Zapla. Distr. --- Argentina.
- POLITA (Williston), 1896:351 (*Pipunculus*). Type-locality: St. Vincent, B.W.I. Distr. --- St. Vincent. Ref. --- Hardy, 1943:146.
- PROSTATA Hardy, 1963:261, figs. 1c-h. Type-locality: Colombia, Cundinamarca, Funza. Distr. --- Colombia and possibly Argentina.
- SCOPULATA Hardy, 1963:262, figs. 1i-l. Type-locality: Colombia, Valle, Palmira. Distr. --- Colombia.
- SONORENSIS (Cole), 1923:466, fig. 9 (*Pipunculus*). Type-locality: Mexico, Sonora, Tepoca Bay. Distr. --- Mexico. Ref. --- Hardy, 1943:176, pl. 17, fig. 99a.
- SUBVIRESCENS (Loew), 1872:87 (*Pipunculus*). Type-locality: U.S.A., Texas, Belfrage. Distr. --- widespread of Nearctic, Neotropical and Palearctic regions.
- aridus* Williston, 1893:78 (*Pipunculus*). Type-locality: U.S.A., California.

- pilosiventris* Becker, 1900:236 (*Pipunculus*). Type-locality: Egypt, Cairo.
- glabrum* Adams, 1905:165 (*Pipunculus*). Type-locality: Africa, Rhodesia.
- insularis* Cresson, 1911:317 (*Pipunculus*). Type-locality: Bermuda, Milton Parish.
- albiseta* Cresson, 1911:318 (*Pipunculus*). Type-locality: Bermuda, Hamilton Parish.
- metallescens* Malloch, 1912b:298 (*Pipunculus*). Type-locality: Nicaragua, Chinandega.
- knowltoni* Hardy, 1939:20 (*Pipunculus*). Type-locality: U.S.A., Utah, Cache Junction.
- TUBERCULATA Hardy, 1948b:11, figs. 7a-d. Type-locality: Cuba, Soledad. Distr. — Cuba.

#### LITERATURE CITED

ACZÉL, M.

1940. Vorarbeiten zu einer Monographie der Dorylaiden (Dipt.) Dorylaiden-Studien V. *Zool. Anz.* 1.12 Bd. 132, Heft 7/8:149-169.
1948. Grundlagen einer Monographie der Dorilaiden (Diptera). Dorilaiden Studien VI. *Acta Zool. Lilloana* 6:5-168.
1952. Catalogo de la familia Dorilaidae (Pipunculidae) de la Región Neotropical. *Rev. Soc. Ent. Arg.* 15:237-251.

ADAMS, C. F.

1905. Diptera Africana 1. *Bull. Kansas Univ. Sci.* 3:165.

BECKER, T.

1900. Dipterologische Studien V. Pipunculidae. *Berl. Ent. Zeitschr.* 45:215-252.
1919. Diptères brachycères. *Mission du Service Géographique de l'Armée. Mesure d'un Arc de Méridien Equatorial en Amérique du Sud*, Paris 10:163-216.

BEZZI, M.

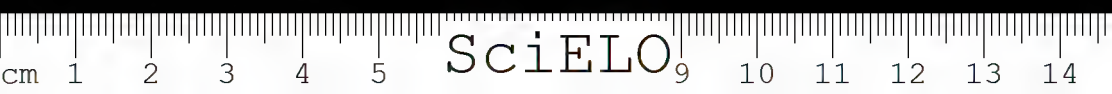
1907. [Pipunculidae] in Becker, Th. & K. Kertész: *Katalog der palaarktischen Dipteren* 3:166.

COLLIN, J. E.

- 1931a. Platypezidae, Pipunculidae in *Diptera of Patagonia and South Chile* 6(2):49-61.
- 1931b. Die Ausbeute der deutschen Chaco-Expedition 1925/26. Diptera. XXIX. Pipunculidae. *Konowia* 10(3):171-176.

COQUILLETT, D. W.

1910. The type-species of the North American genera of Diptera. *Proc. U.S. Nat. Mus.* 37:499-647.





CRESSON, E. T.

1911. Studies in North American Dipterology. Pipunculidae. *Trans. Amer. Ent. Soc.* 36:267-329, pls. IV-IX

CURRAN, C. H.

1928. Records and descriptions of Diptera mostly from Jamaica, in Gowdey, C.C.: *Catalogus Insectorum Jamaicaensis*. *Ent. Bull. Dept. Agric.*, Kingston, Jamaica 4:36.
- 1934a. The Templeton Crocker Expedition of the California Academy of Sciences, 1932, n° 13. Diptera. *Proc. Calif. Acad. Sci.* (4)21:147-172.
- 1934b. The Diptera of Kartabo, Bartica District, British Guiana, with description of new species. *Bull. Amer. Mus. Nat. Hist.* 66(3):287-532.

DUDA, O.

1940. Neue oder ungenügend bekannte Zweiflügler der palaarktischen Region aus meiner Sammlung. *Folia Zool. Hydrobiol.*, Riga 10:214-226.

ENDERLEIN, G.

1936. Zweiflügler, Diptera, in Brohmer, P., G. Ehrmann & G. Ulmer: *Die Tierwelt Mitteleuropas* 6. *Insekten* 3:128-129.

FALLÉN, C. F.

1810. *Specimen entomologicum novam Dipterorum disponendi exhibens*: 10, Lund.
1816. *Diptera Sueciae* 1. *Syrphici*: 16, Lund.

HARDY, D. E.

1939. New Nearctic Pipunculidae (Diptera). *Journ. Kansas Ent. Soc.* 12(1):16-25.
1943. A revision of Nearctic Dorilaidae (Pipunculidae). *Univ. Kansas Sci. Bull.* 29(1):1-231.
1947. Notes and descriptions of Dorilaidae (Pipunculidae — Diptera). *Journ. Kansas Ent. Soc.* 20(4):146-153.
- 1948a. New and little known Neotropical Dorilaidae. *Journ. Kansas Ent. Soc.* 21(4):124-133.
- 1948b. Neotropical Dorilaidae (Pipunculidae) Studies, Part I (Diptera). *Psyche* 55(1):1-15.
1949. New and little known Diptera from the California Academy of Sciences collection (Rhagionidae and Dorilaidae). *The Wann Coll.* 7(4):133-137.
- 1950a. Neotropical Dorilaidae Studies. Part 2 (Pipunculidae, Diptera). *Rev. de Ent.*, Rio de Janeiro 21(3):433-448.
- 1950b. Dorilaidae (Pipunculidae — Diptera). *Exploration du Parc National Albert, Mission G. F. de Witte* 62:53 pp.
1953. Notes on the Shannon types of Dorilaidae from Argentina (Pipunculidae — Diptera). *Acta Zool. Lilloana* 10:299-306.

- 1954a. Neotropical Dorilaidae Studies, Part III. Brazilian species and a key to the known species of *Dorilas* sens. lat. *Bol. Mus. Nac. Rio de Janeiro* (n.s.), Zool. 123:1-60.
- 1954b. Studies in New World Dorilaidae (Pipunculidae: Diptera). *Journ. Kansas Ent. Soc.* 27(4):121-127.
1963. Studies in Pipunculidae (Diptera) of Colombia. *Proc. Haw. Ent. Soc.* 18(2):259-266.
- 1965a. The Pipunculidae of Argentina. *Acta Zool. Lilloana* 19:187-241.
- 1965b. Neotropical Pipunculidae (Diptera) Studies, Part IV. Further studies of Brazilian species. *Arg. Zool. Est. São Paulo* 14(1):1-68.

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

1961. Opinion 597. *Prothechus* Rondani, 1856 and *Alloneura* Rondani, 1856 (Insecta, Diptera), suppressed under the Plenary Powers. *Bull. Zool. Nomencl.* 18:230-235.
1963. Opinion 678. The suppression under the Plenary Powers of the pamphlet published by Meigen, 1800. *Bull. Zool. Nomencl.* 20:339-342.

JOHNSON, C. W.

1919. A revised list of the Diptera of Jamaica. *Bull. Amer. Mus. Nat. Hist.* 41(8):421-449.

KERTÉSZ, K.

1900. Bemerkungen über Pipunculiden (Dipt.). *Wien. Ent. Zeitung* 19:244-245.
1915. Contributions to the knowledge of the Dorylaidae. *Ann. Mus. Nat. Hung.* 13:386-392.

LATREILLE, P. A.

1802. *Histoire naturelle, générale et particulière des Crustacés et des Insectes* 3:463, Paris.

LOEW, H.

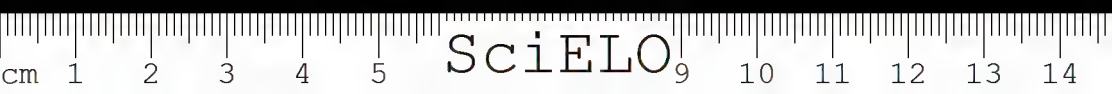
1857. Bidrag till kännedomen om Afrikas Diptera. *Öfvers. Kongl. Vet. Akad. Förhandl.* 14:374-375.
1860. Die Dipteren-Fauna Süd-Afrikas. *Abhandl. naturwiss. Ver. Sachsen u. Thüringen* 2:282.
1865. Diptera Americae septentrionalis indigena. *Centuria sexta. Berl. Ent. Zeitschr.* 9:127-186.

MACQUART, J.

1834. Insectes du Nord de France. *Recueil des travaux de la société d'amateurs des Sciences de l'Agriculture et des Arts de Lille* (1833):356.

MALLOCH, J. R.

- 1912a. Three new species of Pipunculidae (Diptera) from Panama. *Smiths. Misc. Coll.* 60(1):1-4.
- 1912b. New American dipterous insects of the family Pipunculidae. *Proc. U.S. Nat. Mus.* 43:291-299.



MEIGEN, J. G. [W.]

1800. *Nouvelle classification des mouches à deux ailes (Diptera L.) d'après un plan tout nouveau*, p. 31, Paris.

1803. Versuch einer neuen Gattungs Eintheilung der europäischen zweiflügeligen Insekten. *Mag. f. Insektenkunde* 2:259-286.

RONDANI, C.

1856. *Dipterologiae Italicae Prodrumus* 1:1-228, Parma.

SHANNON, R. C.

1927. Some new Diptera from Argentina. *Rev. Soc. Ent. Arg.* 1(4):31-42.

VAN DUZEE, E. P.

1928. In Curran, C. H.: *Diptera. Scient. Survey of Porto Rico and Virgin Islands* 11:43, New York.

WESTWOOD, J. O.

1840. Order XIII. Diptera Aristotle, pp. 125-154, in *Synopsis of the genera of British Insects*, pp. 1-158, in *An introduction to the modern classification of Insects*, London.

WIEDEMANN, C. R. W.

1830. *Aussereuropäische zweiflügelige Insekten* 2:650.

WILLISTON, S. W.

1892. Syrphidae, in Godman, F. S. & O. Salvin: *Biologia Centrali-Americana, Diptera* 3:86-88.

1893. In Riley, C. W.: Report on a small collection of insects made during the Death Valley Expedition. *North American Fauna* 7:255.

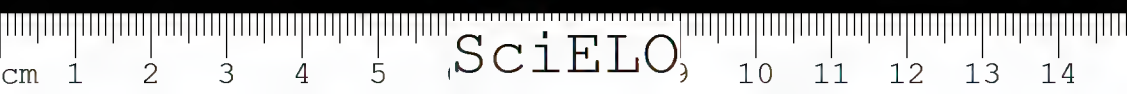
1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London*: 351.

ZETTERSTEDT, J. W.

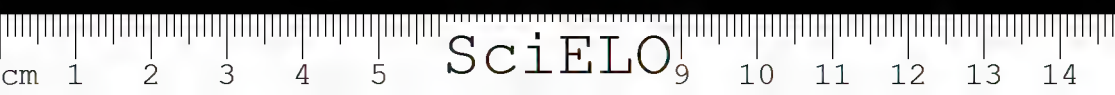
1849. *Diptera Scandinaviae* 8:3207.

## INDEX

|   |      |
|---|------|
| ablus (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....     | 45.3 |
| absonditus (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .... | 45.3 |
| accedens (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....  | 45.3 |
| aculeatus Williston, 1896, <i>Pipunculus</i> (subgenus?) .....                  | 45.7 |
| acuticornis Malloch, 1912, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....         | 45.4 |
| adunatus Hardy, 1965, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....              | 45.3 |
| aequatorialis Becker, 1919, <i>Pipunculus</i> ( <i>Cephalosphaera</i> ) .....   | 45.2 |
| albinus Wiedemann, 1830, <i>Pipunculus</i> (subgenus?) .....                    | 45.7 |
| albiseta (Cresson), 1911 ( <i>Pipunculus</i> ), <i>Tomosvaryella</i> .....      | 45.9 |
| Allomethus Hardy, 1943 .....  | 45.7 |
| <i>Alloneura</i> Rondani, 1856 .....  | 45.2 |

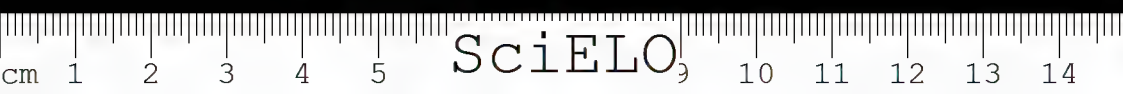


|   |      |
|---|------|
| amazonus (Hardy), 1950 (Dorilas), Pipunculus (Eudorylas) .....      | 45.3 |
| <i>Anacephalops</i> Aczél, 1940 .....                               | 45.2 |
| angustifrons Becker, 1900, Pipunculus (Eudorylas) .....             | 45.3 |
| argentatus (Hardy), 1954 (Dorilas), Pipunculus (Eudorylas) ...      | 45.3 |
| aridus (Williston), 1893 (Pipunculus), Tomosvaryella .....          | 45.8 |
| <i>Atelenevra</i> Macquart, 1834 .....                              | 45.1 |
| attenuatus Hardy, 1965, Pipunculus (Eudorylas) .....                | 45.3 |
| barrettoi Hardy, 1956, Pipunculus (Eudorylas) .....                 | 45.3 |
| barueriensis Hardy, 1965, Pipunculus (Eudorylas) .....              | 45.3 |
| bidens (Cresson), 1911 (Pipunculus), Tomosvaryella .....            | 45.8 |
| boutropis Hardy, 1965, Pipunculus (Cephalosphaera) .....            | 45.2 |
| brasiliensis (Hardy), 1950 (Dorilas), Pipunculus (Pipunculus) ..    | 45.6 |
| brunnipennis Becker, 1900, Pipunculus (Eudorylas) .....             | 45.3 |
| buscki Malloch, 1912, Pipunculus (Eudorylas) .....                  | 45.3 |
| callistus (Hardy), 1954 (Dorilas), Pipunculus (Pipunculus) ....     | 45.6 |
| carrerae (Hardy), 1950 (Dorilas), Pipunculus (Eudorylas) .....      | 45.3 |
| <i>Cephalops</i> Falien, 1810 .....                                 | 45.2 |
| Cephalosphaera Enderlein, 1936 .....                                | 45.2 |
| Chalarinae .....  | 45.1 |
| Chalarus Walker, 1834 .....   | 45.1 |
| chilensis Collin, 1931, Chalarus, subspecies of spurius (Fallén) .. | 45.1 |
| chiloensis Collin, 1931, Protonephrocera .....                      | 45.2 |
| <i>Collinias</i> Aczél, 1940 .....                                  | 45.2 |
| congruens (Hardy), 1950 (Dorilas), Pipunculus (Eudorylas) ....      | 45.3 |
| cressoni Johnson, 1919, Pipunculus (Eudorylas) .....                | 45.3 |
| curvatus (Hardy), 1954 (Dorilas), Pipunculus (Eudorylas) ....       | 45.3 |
| cuspidicornis Kertész, 1915, Pipunculus (Eudorylas) .....           | 45.4 |
| devius Hardy, 1965, Pipunculus (Eudorylas) .....                    | 45.4 |
| dextratus Hardy, 1965, Pipunculus (Eudorylas) .....                 | 45.4 |
| discanthus Hardy, 1965, Pipunculus (Eudorylas) .....                | 45.4 |
| disgregus Hardy, 1965, Pipunculus (Eudorylas) .....                 | 45.4 |
| doelloi Shannon, 1927, Pipunculus (Eudorylas) .....                 | 45.4 |
| <i>Dorilas</i> Meigen, 1800 .....                                   | 45.2 |
| dorsispinosus Hardy, 1965, Pipunculus (Eudorylas) .....             | 45.4 |
| <i>Dorylas</i> Meigen, 1800 (emend.) .....                          | 45.2 |
| Dorylomorpha Aczél, 1939 .....                                      | 45.8 |
| dumicolus Hardy, 1963, Pipunculus (Eudorylas) .....                 | 45.4 |
| elegantula Williston, 1892, Pipunculus (Cephalosphaera) .....       | 45.2 |
| eminulus Hardy, 1965, Pipunculus (Eudorylas) .....                  | 45.4 |
| eremitus (Hardy), 1954 (Dorilas), Pipunculus (Eudorylas) .....      | 45.4 |
| Eudorylas Aczél, 1939 .....   | 45.3 |
| exsertus Hardy, 1965, Pipunculus (Eudorylas) .....                  | 45.4 |
| ferepauculus Hardy, 1965, Pipunculus (Pipunculus) .....             | 45.6 |
| flavicornis (Williston), 1892 (Pipunculus), Allomethus .....        | 45.7 |
| flavitaris Williston, 1892, Pipunculus (Eudorylas) .....            | 45.4 |
| galapagensis (Curran), 1934 (Pipunculus), Tomosvaryella .....       | 45.8 |
| <i>glabrum</i> (Adams), 1905 (Pipunculus), Tomosvaryella .....      | 45.9 |
| golbachii Hardy, 1965, Pipunculus (Eudorylas) .....                 | 45.4 |

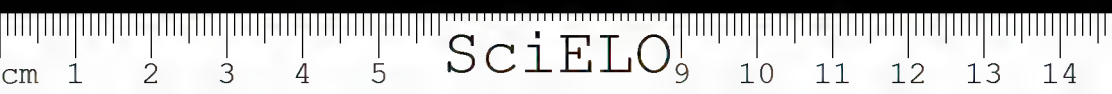


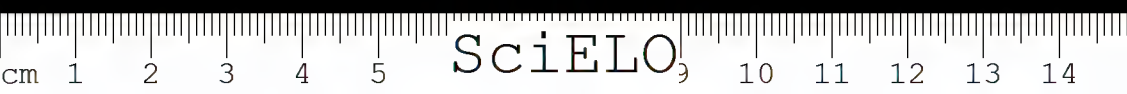


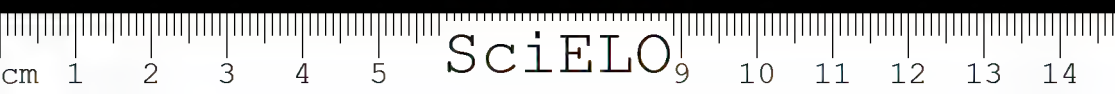
|   |      |
|---|------|
| <i>gomesi</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                       | 45.4 |
| <i>gowdeyi</i> Curran, 1928, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....   | 45.4 |
| <i>gratiosus</i> Kertész, 1915, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....  | 45.4 |
| <i>incomitatus</i> Hardy, 1965, <i>Pipunculus</i> ( <i>Cephalosphaera</i> ) .....   | 45.3 |
| <i>ineptus</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                      | 45.4 |
| <i>inermus</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                      | 45.4 |
| <i>insignis</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                     | 45.4 |
| <i>insularis</i> (Cresson), 1911 ( <i>Pipunculus</i> ), <i>Tomosvaryella</i> .....  | 45.9 |
| <i>interruptus</i> Malloch, 1912, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....  | 45.4 |
| <i>jamaicensis</i> Johnson, 1919, <i>Pipunculus</i> ( <i>Cephalosphaera</i> ) .....                                       | 45.2 |
| <i>knowltoni</i> (Hardy), 1939 ( <i>Pipunculus</i> ), <i>Tomosvaryella</i> .....  | 45.9 |
| <i>laeta</i> (Becker), 1900 ( <i>Pipunculus</i> ), <i>Dorylomorpha</i> .....  | 45.8 |
| <i>lanei</i> Hardy, 1965, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....  | 45.4 |
| <i>latifrons</i> (Hardy), 1948 (Dorilas), <i>Pipunculus</i> ( <i>Pipunculus</i> ) ....                                    | 45.6 |
| <i>lenkoi</i> Hardy, 1965, <i>Dorylomorpha</i> .....  | 45.8 |
| <i>lepidipes</i> Hardy, 1943, <i>Tomosvaryella</i> .....  | 45.8 |
| <i>limatus</i> Hardy, 1965, <i>Pipunculus</i> ( <i>Pipunculus</i> ) .....   | 45.6 |
| <i>lindneri</i> Collin, 1931, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....  | 45.5 |
| <i>lividus</i> (Hardy), 1948 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                      | 45.5 |
| <i>longipilus</i> (Hardy), 1948 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) ....                                    | 45.5 |
| <i>lopesi</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                       | 45.5 |
| <i>lynchi</i> (Shannon), 1927 ( <i>Pipunculus</i> ), <i>Tomosvaryella</i> .....   | 45.8 |
| <i>mediocris</i> (Collin), 1931 ( <i>Pipunculus</i> ), <i>Tomosvaryella</i> .....   | 45.8 |
| <i>metallescens</i> Malloch, 1912 ( <i>Pipunculus</i> ), <i>Tomosvaryella</i> .....                                       | 45.9 |
| <i>mexicanus</i> (Hardy), 1949 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) ....                                     | 45.5 |
| <i>Microcera</i> Meigen, 1803 .....   | 45.2 |
| <i>mocaensis</i> (Hardy), 1948 (Dorilas), <i>Pipunculus</i> ( <i>Cephalosphaera</i> ). ..                                 | 45.3 |
| <i>nigripedes</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) ...                                     | 45.5 |
| <i>nitidus</i> (Hardy), 1950 (Dorilas), <i>Pipunculus</i> ( <i>Pipunculus</i> ) .....                                     | 45.6 |
| <i>occultus</i> (Hardy), 1950 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                     | 45.5 |
| <i>opinatus</i> (Hardy), 1950 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                     | 45.5 |
| <i>opiparus</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....                                     | 45.5 |
| <i>ornatitarsalis</i> Hardy, 1954, <i>Tomosvaryella</i> .....   | 45.8 |
| <i>paganus</i> Hardy, 1965, <i>Pipunculus</i> ( <i>Pipunculus</i> ) .....   | 45.6 |
| <i>panamaensis</i> (Hardy), 1948 ( <i>Cephalosphaera</i> ), <i>Pipunculus</i> ( <i>Cepha-</i><br><i>losphaera</i> ) ..... | 45.3 |
| <i>particeps</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) ....                                     | 45.5 |
| <i>partitus</i> Hardy, 1965, <i>Pipunculus</i> ( <i>Eudorylas</i> ) .....   | 45.5 |
| <i>pauculus</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Pipunculus</i> ) ....                                     | 45.7 |
| <i>pectitibialis</i> (Hardy), 1954 (Dorilas), <i>Pipunculus</i> ( <i>Eudorylas</i> ) ...                                  | 45.5 |
| <i>penepauculus</i> Hardy, 1965, <i>Pipunculus</i> ( <i>Pipunculus</i> ) .....  | 45.7 |
| <i>perissosceles</i> Hardy, 1965, <i>Tomosvaryella</i> .....  | 45.8 |
| <i>peruensis</i> (Hardy), 1947 (Dorilas), <i>Pipunculus</i> (subgenus?) ....  | 45.7 |
| <i>pilosiventris</i> (Becker), 1900 ( <i>Pipunculus</i> ), <i>Tomosvaryella</i> .....                                     | 45.9 |
| <i>Pipunculinae</i> .....   | 45.2 |
| <i>Pipunculini</i> .....  | 45.2 |
| <i>Pipunculus</i> Latreille, 1802 .....   | 45.2 |



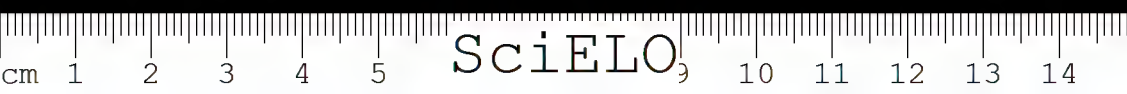
|   |      |
|---|------|
| Pipunculus (Pipunculus) Latreille, 1802 .....                     | 45.6 |
| platypodus (Hardy), 1950 (Dorilas), Pipunculus (Eudorylas) ....   | 45.5 |
| plaumanni (Hardy), 1954 (Dorilas), Pipunculus (Pipunculus) ...    | 45.7 |
| polita (Williston), 1896 (Pipunculus), Tomosvaryella .....        | 45.8 |
| posticus Collin, 1931, Pipunculus (Pipunculus) .....              | 45.7 |
| prostata Hardy, 1963, Tomosvaryella .....                         | 45.8 |
| Protonephrocerini .....   | 45.2 |
| Protonephrocerus Collin, 1931 .....                               | 45.2 |
| ravilateralis Hardy, 1965, Pipunculus (Pipunculus) .....          | 45.7 |
| regalis Van Duzee, 1928, Pipunculus (Eudorylas) .....             | 45.5 |
| replicatus (Hardy), 1948 (Dorilas), Pipunculus (Eudorylas) .....  | 45.5 |
| reveloi Hardy, 1963, Dorylomorpha .....                           | 45.8 |
| rex Curran, 1934, Pipunculus (Eudorylas) .....                    | 45.5 |
| rotundicornis (Hardy), 1954 (Dorilas), Pipunculus (Eudorylas) ..  | 45.5 |
| rubidus (Hardy), 1948 (Dorilas), Pipunculus (subgenus?) .....     | 45.7 |
| schreiteri Shannon, 1927, Pipunculus (Eudorylas) .....            | 45.5 |
| scoliostylis Hardy, 1965, Pipunculus (Eudorylas) .....            | 45.5 |
| scopulata Hardy, 1963, Tomosvaryella .....                        | 45.8 |
| scotinus Collin, 1931, Pipunculus (Eudorylas) .....               | 45.6 |
| similis (Hardy), 1950 (Dorilas), Pipunculus (Eudorylas) .....     | 45.6 |
| simulator Collin, 1931, Pipunculus (Eudorylas) .....              | 45.5 |
| sonorensis (Cole), 1923 (Pipunculus), Tomosvaryella .....         | 45.8 |
| spinitibialis (Hardy), 1954 (Dorilas), Pipunculus (Eudorylas) ... | 45.6 |
| spinus (Hardy), 1948 (Dorilas), Pipunculus (Eudorylas) .....      | 45.6 |
| spurius (Fallén), 1816 (Cephalops), Chalarus .....                | 45.1 |
| Strandimyza Duda, 1940 .....                                      | 45.2 |
| stygius (Hardy), 1948 (Dorilas), Pipunculus (Pipunculus) .....    | 45.7 |
| subjectus Collin, 1931, Pipunculus (Eudorylas) .....              | 45.6 |
| subnitellus Hardy, 1965, Pipunculus (Eudorylas) .....             | 45.6 |
| subopacus Loew, 1865, Pipunculus (Eudorylas) .....                | 45.6 |
| subvirescens (Loew), 1872 (Pipunculus), Tomosvaryella .....       | 45.8 |
| Tomosvaryella, Aczél, 1939 .....                                  | 45.8 |
| Tomosvaryellini .....   | 45.7 |
| trinidadensis (Hardy), 1948 (Dorilas), Pipunculus (Eudorylas) ..  | 45.6 |
| tropidoapex Hardy, 1965, Pipunculus (Eudorylas) .....             | 45.6 |
| tuberculata Hardy, 1948, Tomosvaryella .....                      | 45.9 |
| tucumanus Shannon, 1927, Pipunculus (Eudorylas) .....             | 45.6 |
| umbrinus Becker, 1900, Pipunculus (Subgenus?) .....               | 45.7 |
| ventosus (Hardy), 1954 (Dorilas), Pipunculus (Eudorylas) .....    | 45.6 |
| villifemoralis (Hardy), 1954 (Dorilas), Pipunculus (Pipunculus).  | 45.7 |
| xanthopodus (Williston), 1832 (Pipunculus), Allomethus .....      | 45.7 |
| williamsi (Hardy), 1954 (Dorilas), Pipunculus (Pipunculus) ....   | 45.7 |
| willistoni Kertész, 1900, Pipunculus (subgenus?) .....            | 45.7 |











MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

46

FAMILY SYRPHIDAE

F. CHRISTIAN THOMPSON

*The American Museum of Natural History, New York, New York, U.S.A.*

J. R. VOCKEROTH

*Entomology Research Institute, Canada Department of Agriculture,  
Ottawa, Canada*

YALE S. SEDMAN

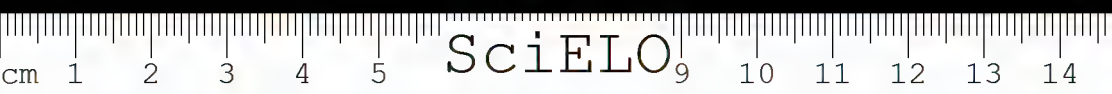
*Department of Biological Sciences, Western Illinois University  
Macomb, Illinois, U.S.A.*

Adult Syrphidae, commonly called "Flower or Hover Flies", are rather conspicuous flies. Their size ranges from 4 mm to over 25 mm and their coloration from bright yellows and oranges to dull drab blacks and grays with a few iridescent forms. Many syrphid flies are Batesian mimics of stinging Hymenoptera and are highly beneficial as pollinators. The larvae of most syrphids are of little direct importance to man. A few are pests of Narcissus bulbs (*Eumerus* and *Merodon*), others have occasionally been reported to cause intestinal myiasis in man (*Eristalis*), and some of the predaceous syrphines are of importance in the control of aphids and other Homoptera.

Syrphid flies are worldwide in distribution, with their greatest diversity of forms in the New World tropics. Despite this interesting diversity and the critical zoogeographic importance of the Neotropical area, the South American forms are still poorly known. The higher classification of the Neotropical Syrphidae has been recently revised in large part by Vockeroth (1969, tribes of Syrphinae, genera of Syrphini) and Thompson (1969, Microdontinae; 1972, Milesiinae), but much still needs to be done on the specific level.

The first catalog of Neotropical Syrphidae was written by Williston (1886; corrections, 1887a). Aldrich's Catalogue of North American Diptera (1905) included many Neotropical species, since his coverage included Central America. Kertész (1910) provided a World catalog but his work on the New World was largely based on Williston and Aldrich.

46.1



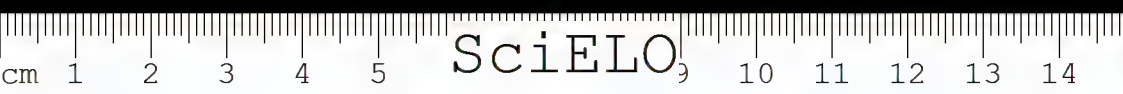
Some local catalogs were published (Brêthes, 1907 — Argentina; Stuardo, 1946 — Chile), but Fluke (1956-57) provided the first modern catalog to the Neotropical Syrphidae. However, as is usual with any such first attempts, there were numerous errors of both omission and commission in it. Goot (1946) reviewed Fluke's catalog, corrected some of his omissions, but still missed about a dozen species and caused additional confusion by introducing a few unnecessary names.

The present catalog is hopefully an improvement over Fluke's work but the large part of the credit for this improvement is due to his pioneering work and Goot's corrections. Besides the corrections of earlier errors, the other improvements in the present catalog stem from the use of a new higher classification of the family, as mentioned above. As a result our work, which tends to recognize distinct genera for the Neotropical species rather than to include them in worldwide genera as did earlier workers, contains many new combinations.

This catalog contains about 1,000 new combinations and synonyms. Most of these new changes have been indicated but undoubtedly some have escaped our notice. Many of the synonymies and combinations involving species of the earlier workers are based on the work of Vockeroth, who studied types of their species during trips to Europe in 1969 and 1971. Some of the other changes resulted from a short visit to the British Museum (Natural History) by Thompson and the loan of selected types by various curators to him. For all the gracious cooperation we received during our studies, we are very grateful to those curators listed below by their respective museums.

An attempt is made to list the depository of all the types of Neotropical species. These statements about type depositories start with an indication of the number of types, followed by the sex of the type or types and end with an abbreviation for the depository. The singular, type, is used when the species was described from a single specimen or a holotype or lectotype was or has been designated [in the case of lectotypes, reference to the designation is given]; the plural, types, when the species was described from a series and no lectotype has been designated; and "type(s)" when we are uncertain of the number of types involved. The sex of the type or types is indicated by a sex symbol or query when the sex is unknown. The types are assumed to be where they were reported to be deposited either in the original publication or in other references (such as Horn & Kahle, 1935-37; Sachtleben, 1961; Byers *et al.*, 1962; and Zimsen, 1964). In cases of doubt about the depository of a type a query is added after the abbreviation for depository and when the depository is unknown only a query is used. All types seen by the authors are marked with an asterisk after the depository abbreviation. In a few cases where the type is missing, lost or destroyed this information is included in parentheses after the abbreviation and with either a reference to the source of the information or initials, which indicates which one of us has noted it.

|        |   |
|--------|---|
| AMNH   | The American Museum of Natural History, New York<br>(P. Wygodzinsky*) |
| ANSP   | Academy of Natural Sciences, Philadelphia (D. Rentz*)                 |
| BM(NH) | British Museum (Natural History), London (K.G.V. Smith*)              |
| CAS    | California Academy of Sciences, San Francisco (P. H. Arnaud, Jr.*)    |
| CM     | Carnegie Museum, Pittsburg (G. Wallace*)                              |



|          |   |
|----------|---|
| CNC      | Canadian National Collection, Ottawa (J. R. Vockeroth)  |
| CNHM     | Chicago National History Museum (Field Museum...),<br>Chicago   |
| CU       | Cornell University, Ithaca (L. L. Pechuman*)  |
| DEI      | Deutsches Entomologisches Institut, Eberswalde  |
| ENA      | Escola Nacional de Agronomia, Rio de Janeiro  |
| Hull     | Collection of F. M. Hull (now in the CNC).  |
| HZM      | Zoologisches Staatsinstitut und Zoologisches Museum,<br>Hamburg   |
| IML      | Instituto Miguel Lillo, Tucumán   |
| IOC      | Instituto Oswaldo Cruz, Rio de Janeiro (H. S. Lopes)  |
| Kiel     | Fabricius Collection of Kiel Museum, now housed at MC   |
| LSL      | Linnean Society of London, Linnean Collection, now housed<br>at BM(NH)  |
| MA       | Zoologisch Museum, Amsterdam (W. Ellis*)  |
| MACN     | Museo Argentino de Ciencias Naturales "Bernardino Rivada-<br>via", Buenos Aires   |
| MC       | Universitets Zoologiske Museet, Copenhagen (L. Lyneborg*)   |
| MCSNG    | Museo Civico di Storia Naturale "Giacomo Doria", Genova<br>(D. Guiglia*)  |
| MCSNM    | Museo Civico di Storia Naturale, Milan (C. Leonardi*)   |
| MCZ      | Museum of Comparative Zoology, Cambridge (H. E. Evans*)   |
| MD       | Staatliches Museum für Tierkunde, Dresden   |
| MIZUN    | Museo dell' Istituto di Zoologia dell' Università di Napoli,<br>Naples  |
| ML       | Rijksmuseum van Natuurlijke Historie, Leiden (P. J. van<br>Heldsingen*)   |
| MNHN     | Muséum National d'Histoire Naturelle, Paris (L. Tsacas*)  |
| MNHNS    | Museo Nacional de Historia Natural, Santiago (J. Moroni B.*)  |
| MRHNB    | Musée Royal d'Histoire Naturelle de Belgique, Brussels  |
| MUNP     | Museo, Universidad Nacional de La Plata, La Plata   |
| MZM      | Museum of Zoology, University of Michigan, Ann Arbor  |
| MZUF     | Museo Zoologico dell'Università di Firenze, Florence (S. Car-<br>fi*)   |
| MZUSP    | Museu de Zoologia da Universidade de São Paulo (formely<br>Departamento de Zoologia, Secretaria da Agricultura)<br>(N. Papavero*) |
| NMB      | Naturhistorisches Museum, Basel (F. Keiser*)  |
| NMPP     | Národní Muzeum v Praze — Přírodovědecké Muzeum, Pra-<br>gue (J. Jezék*)   |
| NRS      | Naturhistoriska Riksmuseet, Stockholm (P. I. Persson*)  |
| OhSU     | Ohio State University, Columbus   |
| OXF      | Hope Department of Entomology, Oxford University,<br>Oxford (D. M. Ackland*)  |
| Seabra   | Collection of C. A. Campos Seabra, Rio de Janeiro   |
| SMF      | Senckenbergisches Museum, Frankfurt (W. Tobias*)  |
| Thompson | Collection of F. C. Thompson  |
| UCD      | University of California, Davis   |
| UCSC     | Centro de Estudios Entomológicos, Universidad de Chile,<br>Santiago   |
| UCVC     | Instituto de Biología, Departamento de Ciencias, Universidad<br>de Chile, Valparaiso  |

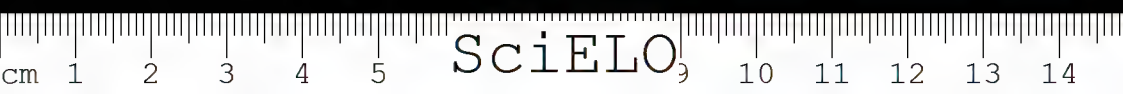


|      |  |
|------|--|
| UK   | Snow Entomological Museum, University of Kansas, Lawrence (G. Byers*)                              |
| UNMB | Természettudományi Múzeum, Budapest  |
| USNM | United States National Museum, Washington (L. Knutson, USDA, Systematic Entomology Laboratory*)    |
| UTOR | Istituto e Museo di Zoologia di Torino, Turin  |
| UZMH | Universitets Zoologiska Museum, Helsinki (W. Hackman*)   |
| VMNH | Naturhistorisches Museum, Vienna (A. Kaltenbach*, R. Lichtenberg*)                                 |
| ZMB  | Institut für Spezielle Zoologie und Zoologisches Museum der Humboldt-Universität zu Berlin, Berlin |
| ZML  | Zoological Museum, Lund (H. Andersson*)  |
| ZSM  | Zoologische Staatssammlung, Munich   |

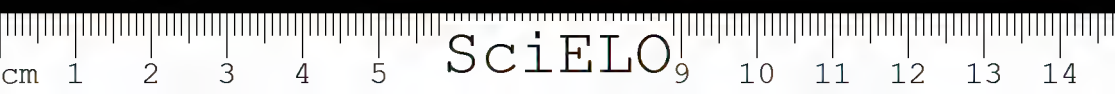
Geographical distribution is compiled only from Fluke's catalog (1956-57) and material seen by us. Other published distribution records not in Fluke or verified by us are not included and where we question the distribution records in Fluke, we have tried to indicate the source of the record. We have attempted to list the states or provinces of the various countries when specific locality data was available except only when the northern and southernmost Chilean province is given.

The arrangement of genera in the various subfamilies and tribes is shown, with an indication of the number of species, and a summary of the total number of species included in the major divisions of the family.

|                  |       |
|------------------|-------|
| SYRPHINAE        | (682) |
| Syrphini         | (445) |
| Syrphus          | 7     |
| Metasyrphus      | 1     |
| Eupeodes         | 1     |
| Scaeva           | 3     |
| Notosyrphus      | 1     |
| Dasysyrphus      | 1     |
| Dideomima        | 1     |
| Megasyrphus      | 1     |
| Pseudodoros      | 1     |
| Ocyrtamus        | 297   |
| Salpingogaster   | 34    |
| Salpingogaster   | (32)  |
| Eosalpingogaster | (2)   |
| Allograpta       | 74    |
| Sphaerophoria    | 3     |
| Unrecognized     | 20    |
| Chrysotoxini     | (2)   |
| Chrysotoxum      | 2     |
| Paragini         | (1)   |
| Paragus          | 1     |
| Melanostomatini  | (91)  |



|                  |       |
|------------------|-------|
| Carposcalis      | 15    |
| Melanostoma      | 5     |
| Rhysops          | 31    |
| Xanthandrus      | 12    |
| Talaha           | 1     |
| Tuberculanostoma | 4     |
| Leucopodella     | 18    |
| Unrecognized     | 5     |
| Toxomerini       | (143) |
| Toxomerus        | 143   |
| MICRODONTINAE    | (175) |
| Paragodon        | 2     |
| Paramicrodon     | 2     |
| Argentinomyia    | 8     |
| Argentinomyia    | (7)   |
| Eurypterosyrphus | (1)   |
| Mixogaster       | 17    |
| Microdon         | 145   |
| Ceratophya       | (4)   |
| Rhopalosyrphus   | (2)   |
| Rhoga            | (5)   |
| Ceriomicrodon    | (1)   |
| Masarygus        | (5)   |
| Ubristes         | (25)  |
| Microdon         | (103) |
| Nothomicrodon    | 1     |
| MILESIINAE       | (774) |
| Pipizini         | (17)  |
| Pipiza           | 6     |
| Trichopsomyia    | 11    |
| Cheilosini       | (8)   |
| Cheilosia        | 5     |
| Cheilosia        | (3)   |
| Cartosyrphus     | (2)   |
| Rhingia          | 2     |
| Chamaesyrphus    | 1     |
| Volucellini      | (318) |
| Ornidia          | 3     |
| Tachinosyrphus   | 1     |
| Copestylum       | 314   |
| Callicerini      | (2)   |



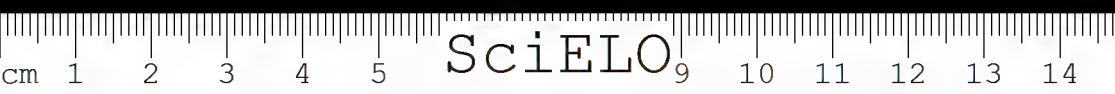
|                  |       |
|------------------|-------|
| Callicera        | 1     |
| Notiocheilosia   | 1     |
| Sericomyiini     | (1)   |
| Arctophila       | 1     |
| Chrysogasterini  | (43)  |
| Lepidomyia       | 14    |
| Myolepta         | 12    |
| Myolepta         | (6)   |
| Protolepidostola | (6)   |
| Chromocheilosia  | 3     |
| Orthonevra       | 10    |
| Cacoceria        | 2     |
| Chamaesphegina   | 2     |
| Eumerini         | (15)  |
| Eumerus          | 1     |
| Alipumillio      | 4     |
| Nausigaster      | 10    |
| Ceriodini        | (48)  |
| Sphiximorpha     | 24    |
| Monoceromyia     | 7     |
| Polybiomyia      | 15    |
| Unplaced         | 2     |
| Eristalini       | (222) |
| Helophilus       | 2     |
| Polydontomyia    | 1     |
| Aemosyrphus      | 3     |
| Dolichogyna      | 11    |
| Dolichogyna      | (4)   |
| Nosodepus        | (7)   |
| Quichuana        | 25    |
| Mallota          | 13    |
| Habromyia        | 12    |
| Eristalis        | 9     |
| Eristalis        | (1)   |
| Eoseristalis     | (8)   |
| Lycastrihyncha   | 5     |
| Palpada          | 102   |
| Meromacrus       | 39    |
| Milesiini        | (100) |
| Xylota           | 9     |
| Neplas           | 27    |
| Ceriogaster      | 11    |

|                       |       |
|-----------------------|-------|
| Macrometopia          | 1     |
| Sterphus              | 11    |
| Sterphus              | (2)   |
| Crepidomyia           | (9)   |
| Odyneromyia           | 2     |
| Valdiviomyia          | 6     |
| Aneriophora           | 1     |
| Flukea                | 1     |
| Criorhina             | 3     |
| Philippimyia          | 1     |
| Blera                 | 1     |
| Syritta               | 2     |
| Senogaster            | 1     |
| Tropidea              | 6     |
| Milesia               | 5     |
| Spilomyia             | 6     |
| Stilbosoma            | 2     |
| Hemixylota            | 3     |
| unplaced species      | 1     |
| Unrecognized syrphids | 6     |
|                       | <hr/> |
|                       | 1,637 |

The initial manuscript and literature survey for this catalog was completed by 15 May 1972, although some later references have been included in part. The last Zoological Record checked was 1968.

#### New names proposed in this catalog

*Valdiviomyia* Vockeroth  
*Ocyptamus isthmus* Thompson  
*Ocyptamus octomaculatus* Thompson  
*Ocyptamus willistoni* Thompson  
*Allograpta rhina* Thompson  
*Toxomerus hulli* Sedman  
*Microdon anax* Thompson  
*Copestylum colombiense* Thompson  
*Copestylum dichopticum* Thompson  
*Copestylum neosplendens* Thompson  
*Copestylum neotropicum* Thompson  
*Copestylum rufitarse* Thompson  
*Copestylum shannoni* Thompson  
*Copestylum trituberculatum* Thompson  
*Copestylm vittatum* Thompson  
*Quichuana nigricans* Thompson  
*Palpada geniculosa* Thompson  
*Palpada rufipedes* Thompson  
*Ceriogaster hinei* Thompson





Subfamily SYRPHINAE

Tribe SYRPHINI

Ref. — Vockeroth, 1969 (generic rev.).

Genus SYRPHUS Fabricius

- SYRPHUS Fabricius, 1775:762. Type-species, *Musca ribesii* Linnaeus (see Wirth et al. 1965:558) to preserve established usage. Ref. — Fluke, 1942 (rev.).
- OCTOMACULATUS Walker, 1837:344. Type-locality: "Chile". Distr. — Chile (Curicó-Magallanes), Argentina. Type ♀ BM(NH)\*. Ref. — Fluke, 1942:3, Fig. 1 (abdomen).
- gayi* Macquart, 1842:150 (90), pl. 13, fig. 8 (head). Type-locality: "Chile". Type ♀ MNHN\*.
- testaceicornis* Macquart, 1850:457 (153), pl. 14, fig. 12 (head). Type-locality: "Chile". Type ♀ MNHN\* N. SYN.
- patagonus* Lynch Arribálzaga, 1892a:115 (1892c:73). Type-locality: Argentina, Patagonia, Río Gallegos. Type(s) ? MACN.
- PALLIPES Bigot, 1884b:93. Type-locality: "Chile". Distr. — Chile, Argentina. Types ♂ OXF\*.
- flavipes* Shannon & Aubertin, 1933:127, fig. 22a (abdomen), 22b (abdomen) (*Scaeva*). Type-locality: "Chile". Types ♂ OXF\* N. SYN.
- PHAEOSTIGMA Wiedemann, 1830:130. Type-locality: "Brazil". Distr. — (Santa Catarina, Rio de Janeiro), Argentina (Tucumán). Types ♂ VMNH\* Ref. — Fluke, 1942:2 (redescription), fig. 3 (abdomen); Fluke, 1950a:117, fig. 15 (male genitalia).
- POECHLOGASTER Philippi, 1865:746. Type-locality: Chile, Valparaíso. Distr. — Chile (Malleco-Magallanes). Type(s) ? MNHNS.
- REEDI Shannon, 1927a:27. Type-locality: Chile, Valparaíso. Distr. — Chile, Brazil, Argentina. Type ♂ USNM\*.
- similis* Blanchard, 1852:410 (preocc. Fallén, 1817). Type-locality: Chile, Santa Rosa. Type ♀ MNHM\*.
- pseudoribesii* Vimmer & Soukup, 1938:30. Type-locality: Peru, Puno. Type ♂ NMPP\* N. SYN.
- SHORAE Fluke, 1950b:440 (nom. nov. for *willistoni* Fluke). Distr. — Mexico, Guatemala, Honduras, Costa Rica, Panama, Colombia, Ecuador, Chile, Argentina. Refs. — Fluke 1942:22, fig. 2 (abdomen); Fluke, 1950a:117, fig. 14 (male genitalia).
- bisinuatus* Williston, 1891:17 (preocc. Palma, 1863). Type-locality: Mexico, Guerrero, Omiltemi, 8,000 ft.; Costa Rica, Volcan de Irazu, 6,000-7,000 ft., Río Sucio. Types ♀ BM(NH)\* & AMNH\*.
- willistoni* Fluke, 1942:3 (nom. nov. for *bisinuatus* Williston; but preocc. Cockerell, 1909).
- VITRIPENNIS Meigen, 1822:308. Type-locality: "Europe". Distr. — Holarctic; ?Mexico, Mexico City (Fluke, 1942:3). Type(s) ? MNHN Ref. — Fluke, 1950a:117, fig. 11 (male genitalia).
- ribesii* Linnaeus of Williston, 1891:17 and Giglio-Tos, 1893:27.

## Genus METASYRPHUS Matsumura

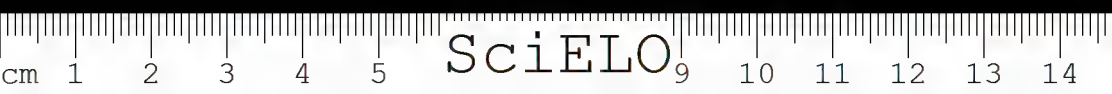
- METASYRPHUS Matsumura, in Matsumura & Adachi, 1917:147. Type-species, *Syrphus corollae* Fabricius (orig. des.).
- Posthosyrphus* Enderlein, 1938:204. Type-species, *Syrphus americanus* Wiedemann (orig. des.). Ref. — Fluke, 1952 (rev.).
- AMERICANUS (Wiedemann), 1830:129 (*Syrphus*). Type-locality: "North America". Distr. — North America; Middle America, Colombia. Type ♀ VMNH (not found-JRV). Ref. — Fluke, 1950a:132, figs. 184-186 (male genitalia).
- wiedemanni* Johnson, 1919:32 (*Syrphus*; unjustified nom. nov. for *americanus* Wiedemann).
- var. FLAVIPES (Enderlein), 1938:205 (*Posthosyrphus*). Type-locality: Colombia, Bogotá. Type ♀ ZMB.

## Genus EUPEODES Osten Sacken

- EUPEODES Osten Sacken, 1877:328. Type-species, *volucris* Osten Sacken (mon).
- Posthonia* Enderlein, 1938:203. Type-species, *longipenis* Enderlein (orig. des.).
- VOLUCRIS Osten Sacken, 1877:329. Type-locality: U.S.A., California, Los Angeles, Marin County, Yosemite; Nevada; Utah; Colorado, Denver, Clear Creek, Spanish Peaks. Distr. — North America; Mexico (south to Chiapas), Colombia?. Types ♂ ♀ MCZ\* Ref. — Vockeroth, 1969:150, fig. 34 (male genitalia).
- ?*longipenis* Enderlein, 1938:203 (*Posthonia*). Type-locality: Colombia, Bogotá. Types ♂ ♀ ZMB.

## Genus SCAEVA Fabricius

- SCAEVA Fabricius, 1805:248. Type-species, *Musca pyrastris* Linnaeus (Curtis, 1834: pl. 509). Ref. — Shannon & Aubertin, 1933 (key).
- MELANOSTOMA (Macquart), 1842:147 (87) (*Syrphus*). Type-locality: "Chile". Distr. — Ecuador (Azua), Peru (Puno), Chile (south to Magallanes), Argentina (Tucumán, Santa Cruz). Type ? MNHN\*. Ref. — Shannon, 1927:28 (redescription); Shannon & Aubertin, 1933:130, fig. 23b (abdomen).
- latafascies* Macquart, 1850:456 (152) (*Syrphus*). Type-locality: "Chile". Types ♂ ♀ MNHN\*.
- latifacies*, Fluke, 1956:213, misspelled.
- sexguttata* Wulp, 1882:135 (*Syrphus*). Type-locality: "Argentina". Type ♂ ♀ ML?
- simillima* Vimmer & Soukup, 1938:32 (*Syrphus*). Type-locality: Peru, Puno. Type ♀ NMPP\* N. SYN.
- pyrastris* Linnaeus of Lynch Arribálzaga, 1892:121 (1892c:78), misident.
- OCCIDENTALIS Shannon, 1927a:29. Type-locality: Chile, Santiago. Distr. — Chile (Santiago-Aysén), Argentina (Tucumán, La Rioja, Mendoza, Neuquén, Río Negro). Type ♀ USNM\* Ref. — Vockeroth, 1969:150, fig. 36 (male genitalia).
- sexmaculata* Macquart, 1850:457 (153) (*Syrphus*; preocc. Palisot de Beauvois, 1819). Type-locality: Chile. Type ♂ MNHN\* N. SYN.
- chilensis* Goot, 1964:214 (*Syrphus*; unjustified nom. nov. for *sexmaculata* Macquart). N. SYN.



PUNCTATA Shannon & Aubertin, 1933:128, fig. 23a (abdomen). Type-locality: Argentina, Bariloche. Distr. — Argentina (Tucumán, Neuquén). Type ♂ USNM\*.

#### Genus NOTOSYRPHUS Vockeroth

NOTOSYRPHUS Vockeroth, 1969:72. Type-species, *Metasyrphus golbachii* Fluke (orig. des.).

GOLBACHI (Fluke), 1950b:447, fig. 9 (abdomen), 10 (head) & 11 (male genitalia) [*Metasyrphus* (*Posthosyrphus*)]. Type-locality: Argentina, Tucumán, Villa Padre Monti. Distr. — Brazil (São Paulo, Santa Catarina, Paraná), Argentina (Tucumán, La Rioja). Type ♂ IML. Ref. — Vockeroth, 1969:151, fig. 38 (male genitalia).

#### Genus DASYSYRPHUS Enderlein

DASYSYRPHUS Enderlein, 1938:208. Type-species, *Scaeva albostrata* Fallén (orig. des.).

LOTUS (Williston), 1887:75 (*Syrphus*). Type-locality: U.S.A., Arizona. Distr. — Western U.S.A.; Mexico (Mexico City), Ecuador? (Fluke, 1942:3). Type ♀ USNM.

#### Genus DIDEOMIMA Vockeroth

DIDEOMIMA Vockeroth, 1969:107. Type-species, *Didea coquilletti* Williston (orig. des.).

COQUILLETI (Williston), 1891:19, pl. 1:9 (habitus), 9a (head) (*Didea*). Type-locality: Mexico, Guerrero, Omiltemi, 8,000 ft. Distr. — Mexico (Durango, Jalisco, Guerrero, Chiapas). Types ♂ ♀ BM (NH)\* & AMNH\*. Refs. — Hull, 1925c:280, fig. 2 (abdomen), 6 (wing); Vockeroth, 1969:147, fig. 20 (wing tip), 161, fig. 67 (male genitalia).

#### Genus MEGASYRPHUS Dusek & Láska

MEGASYRPHUS Dusek & Láska, 1967:363. Type-species, *Scaeva annulipes* Zetterstedt (orig. des.).

LAXUS (Osten Sacken), 1875:66 (*Didea*). Type-locality: U.S.A., Michigan, Lake Superior; Maine, Norway; New Hampshire, Mt. Washington, Alpine region. Distr. — Alaska to Newfoundland, south to U.S.A. (California & North Carolina), Mexico. Types ♂ ♀ MCZ\*. Ref. — Fluke, 1950a:126, figs. 111, 112 (male genitalia).

#### Genus PSEUDODOROS Becker

PSEUDODOROS Becker, 1903:92. Type-species, *nigricollis* Becker (mon.). *Baccha*, subg. *Dioprosopa* Hull, 1949e:99 (also, 1949d:296). Type-species, *Syrphus clavatus* Fabricius (mon.) N. SYN.

CLAVATUS (Fabricius), 1794:298 (*Syrphus*). Type-locality: "Americae meridionalis Insulis". Distr. — U.S.A. (California to Wisconsin and

New Jersey) south to Brazil. Types ♂ ♀ MC\*. Ref. — Hull, 1949e:192, fig. 7 (abdomen); Hull, 1949d:288, fig. 9a (head). N. COMB.

*scutellaris* Walker, 1837:342 (*Paragus*?). Type-locality: "Brazil, St. Paul". Type ? BM(NH).

*varia* Walker, 1849:548 (*Baccha*). Type-locality: ? Types ? BM(NH).

*facialis* Thomson, 1869:504 (*Baccha*). Type-locality: Galápagos Islands. Types ♀ NRS\*.

*scutellata* Williston, 1886:322 (?*Mixogaster*), misspelling.

#### Genus OCYPTAMUS Macquart

OCYPTAMUS Macquart, 1834:554. Type-species, *fascipennis* Macquart (Coquillett, 1910a:577) = *fuscipennis* Say.

*Baccha*, authors.

*Calostigma* Shannon, 1927a:8. Type-species, *elnora* Shannon (orig. des.) N. SYN.

*Callostigma*, Curran, 1930f:8, 1930e:15, 1941:257, misspelled.

*Callistigma*, Hull, 1944j:41, misspelled.

*Baccha*, subg. *Pelecinobaccha* Shannon, 1927a:10. Type-species, *peruviana* Shannon (orig. des.). N. SYN.

*Pipunculosyrphus* Hull, 1937:29. Type-species, *globiceps* Hull (orig. des.). N. SYN.

*Baccha*, subg. *Styxia* Hull, 1943j:46. Type-species, *ebilis* Hull (orig. des.). N. SYN.

*Baccha*, subg. *Mimocalla* Hull, 1943j:46. Type-species, *Baccha capitata* Loew (orig. des.). N. SYN.

*Baccha*, subg. *Therantha* Hull, 1943j:47. Type-species, *Baccha atypica* Curran (orig. des.). N. SYN.

*Callisyrphus* Frey, 1946:154. Type-species, *Syrphus rubricosus* Wiedemann (orig. des.) (1st reviser, Fluke, 1956:199). N. SYN.

*Calliscaeva* Frey, 1946:171. Incorrect original spelling.

*Orphnabaccha* Hull, 1949e:93. Type-species, *Baccha coerulea* Williston (orig. des.). N. SYN.

*Baccha*, subg. *Atylobaccha* Hull, 1949e:94. Type-species, *Baccha flukiella* Curran (orig. des.). N. SYN.

*Baccha*, subg. *Aulacibaccha* Hull, 1949e:96. Type-species, *Baccha titan* Hull (orig. des.). = *arx* Fluke. N. SYN.

*Mercurymyia* Fluke, 1950a:140. Type-species, *Syrphus caldus* Walker (orig. des.). N. SYN.

*Hermesomyia* Vockeroth, 1969:121. Type-species, *bacchiformis* Vockeroth (orig. des.) = *phobifer* Hull. N. SYN.

*Pseudoscaeva* Vockeroth, 1969:123. Type-species, *Syrphus diversifasciatus* Knab (orig. des.). N. SYN.

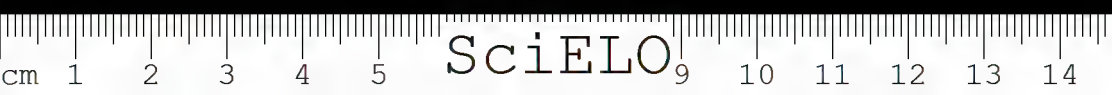
Ref. — Curran, 1941 (key); Hull, 1949e (rev., key).

ABATA (Curran), 1938:1 (*Baccha*). Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil (São Paulo, Santa Catarina). Type ♀ AMNH (missing)\* Ref. — Hull, 1949e:222, fig. 143 (abdomen); 254, fig. 282 (wing). N. COMB.



- ADA (Curran), 1941:278 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:135 (redescription), 194, fig. 20 (abdomen); 216, fig. 116 (abdomen). N. COMB.
- ADSPERSUS (Fabricius), 1805:200 (*Baccha*). Type-locality: "America meridionali". Distr. — Mexico (Chiapas), Colombia, Guyana, Panama, Ecuador, Peru, Brazil, Bolivia. Type ♀ MC\*. Ref. — Hull, 1943j:65, fig. 2 (alula); 1949e:138 (redescription), 198, fig. 33 (abdomen). N. COMB.
- punctata* Shannon, 1927a:11 (*Baccha*). Type-locality Bolivia, Beni, San Antonio. Type ♂ USNM\*.
- AENEUS (Williston), 1891:37, pl. 1:10 (habitus), 10a (head) (*Baccha*). Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas, 9500 ft. Distr. — same. Types ♂ BM(NH). N. COMB.
- AEOLUS (Hull), 1943j:69, fig. 40 (abdomen) (*Baccha*). Type-locality: Ecuador, Machai, Río Pastaza. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:198, fig. 40 (abdomen). N. COMB.
- AEQUILINEATUS (Hull), 1945b:71 (*Epistrophe*). Type-locality: Cuba, Pico Turquino, 6000 ft., Summit. Distr. — same. Type ♀ MCZ\*. N. COMB.
- AGILIS (Bigot), 1884b:92 (*Syrphus*). Type-locality "Mexico". Distr. — same. Type ♀ OXF? N. COMB.
- ALICIA (Curran), 1941:278 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina). Type ♀ AMNH\*. Ref. — Hull, 1949e:140 (redescription), 214, fig. 112 (abdomen). N. COMB.
- AMABILIS (Hull), 1943k:39 (*Baccha*). Type-locality Peru, Loreto, Iquitos. Distr. — same. Type ♂ USNM. Ref. — Hull, 1949e:192, fig. 4 (abdomen); 276, fig. 367 (wing). N. COMB.
- AMPLUS (Fluke), 1942:6, fig. 7 (abdomen) (*Epistrophe*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina), Paraguay, Argentina (Tucumán). Type ♂ AMNH\*. Ref. — Fluke, 1950a:125, fig. 98 (male genitalia); Vockeroth, 1969:164, fig. 76 (male genitalia). N. COMB.
- ANERA (Curran), 1939d:5 (*Baccha*). Type-locality: Brazil, Rondônia, Rio Madeira, Porto Velho. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:246, fig. 257 (abdomen); 266, fig. 332 (wing). N. COMB.
- ANNULATUS (Curran), 1941:258 (*Callostigma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*. Ref. — Hull, 1949e:230, fig. 184 (abdomen); 260, fig. 310 (wing). N. COMB.
- ANONA (Hull), 1943j:91, fig. 2 (alula), 8 (abdomen) (*Baccha*). Type-locality: Ecuador, Oriente, Puyo. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:192, fig. 8 (abdomen). N. COMB.
- ANTHINONE (Hull), 1949e:179 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull. N. COMB.
- ANTHIPHATES (Walker), 1849:589 (*Syrphus*). Type-locality: "Jamaica". Distr. — same. Type ♂ BM(NH). N. COMB.
- ARABELLA (Hull), 1947a:400 (*Baccha*). Type-locality: Costa Rica, La Suiza. Distr. — same. Type ♀ USNM. Ref. — Hull, 1949e:222, fig. 144 (abdomen); 266, fig. 335 (wing). N. COMB.

- ARETHUSA (Hull), 1949e:181 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull. N. COMB.
- ARGENTINUS (Curran), 1939d:6 (*Baccha*). Type-locality: "Argentina". Distr. — Brazil (São Paulo, Santa Catarina), Argentina. Type ♂ AMNH\*. Ref. — Hull, 1949e:248, fig. 265 (abdomen); 266, fig. 328 (wing). N. COMB.
- ARIELA (Hull), 1944i:398 (*Baccha*). Type-locality: "Brazil". Distr. — same. Type ♀ VMNH. Ref. — Hull, 1949e:142 (redescription), 200, fig. 49 (abdomen); 270, fig. 349 (wing). N. COMB.
- ARX (Fluke), 1936:60, fig. 2 (abdomen), 3 (wing) (*Baccha*). Type-locality: Brazil, "Ccis Parma Cos". Distr. — Brazil (Rio de Janeiro, Santa Catarina). Type ♂ AMNH\*. Ref. — Hull, 1949e:248, figs. 259-261 (abdomens); 274, fig. 361 (wing). N. COMB.
- titan* Hull, 1947a:395 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*. N. SYN.
- ASTER (Curran), 1941:278 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:200, fig. 41 (abdomen); 232, fig. 187 (abdomen); 238, fig. 216 (abdomen). N. COMB.
- ATTENUATUS (Williston), 1891:35 (*Baccha*). Type-locality: Mexico, Guerrero, Amula, 6000 ft.; Omiltemi, 8000 ft. Distr. — same. Types ♂ ♀ BM(NH)\*. Ref. — Hull, 1949e:252, fig. 277 (abdomen). N. COMB.
- ATYPICUS (Curran), 1930a:10 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Mexico, Surinam, Guyana, Brazil. Type ♀ AMNH\*. Ref. — Hull, 1949e:204, fig. 68 (abdomen); Doesburg, 1966:69, fig. 58 (habitus). N. COMB.
- AURORA (Hull), 1943:73 (*Baccha*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:208, fig. 79 (abdomen). N. COMB.
- BANKSI (Hull), 1941g:150 (*Baccha*). Type-locality: Panama, Bella Vista. Distr. — same. Type ♂ MCZ. Ref. — Hull, 1949e:252, fig. 280 (abdomen). N. COMB.
- PASSLERI (Curran), 1939d:8 (*Baccha*). Type-locality: Peru, Middle Río Ucayali. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:238, fig. 219 (abdomen); 256, fig. 297 (wing). N. COMB.
- BEATRICEA (Hull), 1942c:73 (*Baccha*). Type-locality: Brazil, São Paulo (Hull, 1949e:144). Distr. — Brazil (São Paulo, Santa Catarina). Type ♀ Hull. Ref. — Hull, 1949e:144 (redescription), 202, fig. 53 (abdomen ♀); 220, fig. 137 (abdomen ♂); 272, fig. 354 (wing ♂); 284, fig. 391 (wing ♀). N. COMB.
- BIVITTATUS (Curran), 1941:276 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:200, fig. 48 (abdomen); 278, fig. 372 (wing). N. COMB.
- BONARIENSIS (Brèthes), 1905:340 (*Baccha*). Type-locality: Argentina, Buenos Aires. Distr. — same. Type ♂ MACN. N. COMB.
- BRAZILIENSIS (Curran), 1939d:9 (*Baccha*). Type-locality: Brazil, Mato Grosso, Poxoréu, Coronel Ponce. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:212, fig. 101 (abdomen); 282, fig. 387 (wing). N. COMB.
- BREVIPENNIS (Schiner), 1868:341 (*Baccha*). Type-locality: "South America". Distr. — Peru. Types ♂ ♀ VMNH\*. Ref. — Hull, 1949e:204, fig. 64 (abdomen); 268, fig. 343 (wing). N. COMB.



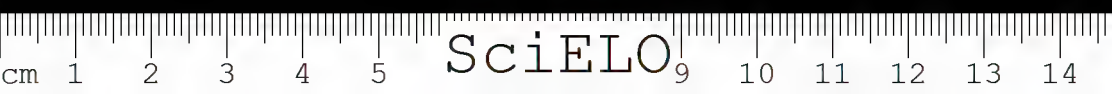
- BROMLEYI (Curran), 1929:490 (*Baccha*). Type-locality: Cuba, Santiago, Las Vegas. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:218, fig. 123 (abdomen); 274, fig. 362 (wing). N. COMB.
- BRUNNIPENNIS (Hull), 1942c:73 (*Baccha*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:206, fig. 76 (abdomen). N. COMB.
- CALDUS (Walker), 1852:232 (*Syrphus*). Type-locality: "Brazil". Distr. — Brazil (São Paulo, Santa Catarina), Paraguay, Argentina (Tucumán). Type ♂ BM(NH)\*. Ref. — Vockeroth, 1969:163, fig. 75 (male genitalia). N. COMB.
- biarcuatus* Fluke, 1937:4, fig. 6 (abdomen) (*Epistrophe*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*.
- CALLA (Curran), 1941:268 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*. N. COMB.
- CALLIDUS (Hine), 1914:335 (*Baccha*). Type-locality: Guatemala, Puerto Barrios. Distr. — same. Type ♂ OhSU. Ref. — Hull, 1949e:250, fig. 270 (abdomen). N. COMB.
- CAPITATUS (Loew), 1863:14 (1864b:116) (*Baccha*). Type-locality: "Cuba". Distr. — same. Type ♂ MCZ. Ref. — Hull, 1949e:196, fig. 22 (abdomen); 238, fig. 223 (abdomen); 240, fig. 227 (abdomen); 266, fig. 330 (wing). N. COMB.
- CARLOTA (Curran), 1929:491 (*Baccha*). Type-locality: Cuba, Trinidad Mts., Mina Carlota. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:238, fig. 224 (abdomen); 268, fig. 340 (wing). N. COMB.
- CECROPS (Hull), 1958:429 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull. N. COMB.
- celia* (Hull), 1949e:214, fig. 108 (abdomen) (*Baccha*). Type-locality: ? Distr. — ? Type(s) ♀ ? *Nomen nudum*.
- CEREBERUS (Hull), 1943j:66 (*Baccha*). Type-locality: Ecuador, Chicocha. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:234, fig. 203 (abdomen). N. COMB.
- CHAPADENSIS (Curran), 1930a:14 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:240, fig. 226 (abdomen); 256, fig. 290 (wing). N. COMB.
- CLARAPEX (Wiedemann), 1830:124 (*Syrphus*). Type-locality: "Brazil". Distr. — Brazil (Mato Grosso, Santa Catarina), Argentina (Misiones, Tucumán, Salta). Type ♀ VMNH\*. Ref. — Hull, 1949e:194, fig. 14 (abdomen). N. COMB.
- COBBOLDIA (Hull), 1958:431 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull. N. COMB.
- COCHENILLIVORUS (Guérin-Méneville), 1848a:lxvii (1848b:350) (*Baccha*). Type-locality: "La Antigua Guatemala". Distr. — same. Type ? MNHN\*. N. COMB.
- COERULEUS (Williston), 1891:38 (*Baccha*). Type-locality: Mexico, Guerrero; Omiltemi, 8000 ft.; Amula, 6000 ft.; Xucumanatlán, 7000 ft.; Sierra de las Aguas Escondidas, 9500 ft. Distr. — U.S.A. (Texas), Mexico (Durango, Sinaloa, Morelos, Guerrero, Chiapas). Types ♂ ♀ BM(NH)\*. Ref. — Hull, 1949e:224, fig. 159 (abdomen), 272, fig. 355 (wing); Vockeroth, 1969:163, fig. 74 (male genitalia). N. COMB.
- COLOMBIANUS (Curran), 1941:282 (*Baccha*). Type-locality: Colombia, Magdalena, Río Frio, Cerro Patrón. Distr. — same. Type ♂ AMNH\*.

- Ref. — Hull, 1949e:214, fig. 109 (abdomen); 270, fig. 346 (wing).  
N. COMB.
- CONCINNUS (Williston), 1891:38 (*Baccha*). Type-locality: Mexico, Chilpancingo, 4600 ft.; Guerrero, Venta de Zopilote, 2800 ft; Tabasco, Teapa. Distr. — same. Types ♂ ♀ BM(NH). N. COMB.
- CONFORMIS Loew, 1866b:38 (1872b:98). Type-locality: "Cuba". Distr. — same. Type ♀ MCZ.
- CONFUSUS (Goot), 1964:213 (*Baccha*; nom. nov. for *Baccha valdiviana* Philippi). Distr. — Chile. N. COMB.
- valdiviana* Philippi, 1865:750 (*Baccha*; preocc. Philippi, 1865:748). Type-locality: Chile, Corral. Type ? MNHNS.
- CONJUNCTUS (Wiedemann), 1830:116 (*Syrphus*). Type-locality: "South America". Distr. — Brazil. Type ♂ MC\*. N. COMB.
- CORA (Curran), 1941:281 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:144 (redescription); 194, fig. 16 (abdomen); 278, fig. 374 (wing); 284, fig. 390 (wing). N. COMB.
- CORDELIA (Hull), 1949e:186 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull. N. COMB.
- COREOPSIS (Hull), 1944j:41 (*Callistigma*). Type-locality: Peru, Putumayo Distr., El Encanto. Distr. — same. Type ♂ CU. Ref. — Hull, 1949e:206, fig. 75 (abdomen). N. COMB.
- COSTATUS (Say), 1829:161 (*Baccha*). Type-locality: U.S.A., Indiana. Distr. — Canada (Ontario), to U.S.A. (New Hampshire, south to Louisiana); Cuba. Type ♀ lost. Ref. — Hull, 1949e:147 (redescription); 224, fig. 152 (abdomen ♀); 228, fig. 169 (abdomen ♂); 280, fig. 376 (wing). N. COMB.
- ?CRASSUS (Walker), 1852:222 (*Baccha*). Type-locality: Brazil. Distr. — same. Type ♂ BM(NH). N. COMB.
- CROCATUS (Austen), 1893:155, pl. 5:5 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — Mexico, Panama, Brazil. Type ♀ BM(NH). Ref. — Hull, 1949e:198, fig. 35 (abdomen); 202, fig. 57 (abdomen). N. COMB.
- CROCEUS (Austen), 1893:157, pl. 5:6 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — Panama, Brazil. Types ♂ BM(NH). Ref. — Hull, 1949e:200, fig. 47 (abdomen ♂); 210, fig. 88 (abdomen ♀) N. COMB.
- CRYPTICUS (Hull), 1942a:97 (*Baccha*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♂ MCZ\*. Ref. — Hull, 1949e:149 (redescription); 216, fig. 121 (abdomen). N. COMB.
- CUBANUS (Hull), 1949j:62, fig. 25 (abdomen) (also, 1944c:30) (*Baccha*). Type-locality: Cuba, Soledad. Distr. — U.S.A. (Georgia), south to Cuba. Type ♀ MCZ. Ref. — Hull, 1949e:196, fig. 25 (abdomen). N. COMB.
- CUBENSIS (Macquart), 1850:465 (161) (*Baccha*). Type-locality: "Cuba". Distr. — same. Type ♀ MNHN\*.
- CULTRATUS (Austen), 1893:151, pl. 5:8-9 (habitus) (*Baccha*). Type-locality: Brazil, Pará, Santarém. Distr. — Guatemala, Guyana, Brazil. Types ♀ BM(NH). Ref. — Hull, 1949e:210, fig. 91 (abdomen). N. COMB.
- var. INCISUS (Hull), 1949e:128 (*Baccha*). Type-locality: ?? Distr. — ?? Type(s) ? ?
- var. PICTULUS (Hull), 1949c:737 (*Baccha*) [also 1949e:242, fig. 235 (abdomen)]. Type-locality: Guyana, Essequibo River, Moraballi Creek, Wallaba Forest. Distr. — same. Type ♂ BM(NH).



- CULTRINUS (Curran), 1939d:7 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:210, fig. 92 (abdomen); 242, figs 236 & 241 (abdomen). N. COMB.
- currani* Hull, 1941b:167 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Type ♂ Hull.
- CYBELE (Hull), 1947b:236 (*Baccha*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♂ USNM. Ref. — Hull, 1949e:150 (redescription), 216, fig. 117 (abdomen). N. COMB.
- CYCLOPS (Hull), 1947a:406 (*Baccha*). Type-locality: Colombia, Muzo. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:234, fig. 196 (abdomen). N. COMB.
- CYLINDRICUS (Fabricius), 1781:429 (*Syrphus*). Type-locality: "Americae meridionalis insulis". Distr. — Jamaica, Haiti, Puerto Rico, Virgin Islands. Type ? Kiel\* (only wings). Ref. — Hull, 1949e:218, fig. 130 (abdomen); 252, fig. 279 (abdomen); 280, fig. 380 (wing). N. COMB.
- CYMBELLINA (Hull), 1944g:63 (*Baccha*). Type-locality: Ecuador, Santo Domingo. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:218, fig. 128 (abdomen). N. COMB.
- DANAIDA (Hull), 1943l:74 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:218, fig. 122 (abdomen). N. COMB.
- DEBASA (Curran), 1941:272 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina). Type ♀ AMNH\*. Ref. — Hull, 1949e:218, fig. 129 (abdomen), 280, fig. 378 (wing). N. COMB.
- DECEPTOR (Curran), 1930a:14 (*Baccha*). Type-locality: Virgin Islands, St. Croix Islands. Distr. — Puerto Rico; Virgin Islands. Type ♂ AMNH\*. Ref. — Hull, 1949e:234, fig. 197 (abdomen), 254, fig. 287 (wing). N. COMB.
- DECIPIENS (Williston), 1891:18 (*Syrphus*). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft. Distr. — Mexico (Durango, Guerrero, Chiapas), Brazil. Types ♂ BM(NH)\* & AMNH\*. Ref. — Fluke, 1942:22, fig. 11 (abdomen); Vockeroth, 1969:164, fig. 77 (superior lobe). N. COMB.
- DELICATISSIMUS (Hull), 1943m:214 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina). Type ♂ AMNH\*. Ref. — Hull, 1949e:202, fig. 52 (abdomen); 252, fig. 278 (abdomen). N. COMB.
- DIANA (Hull), 1947a:408 (*Baccha*). Type-locality: Guyana, Georgetown. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:234, fig. 204 (abdomen). N. COMB.
- DIFFUSUS (Curran), 1939d:4 (*Baccha*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:242, fig. 238 (abdomen); 256, fig. 295 (wing). N. COMB.
- DIMIDIATUS (Fabricius), 1781:434 (*Syrphus*). Type-locality "Americae meridionalis insulis". Distr. — Mexico south to Brazil; Dominican Republic, Puerto Rico, Lesser Antilles. Type ? ? Ref. — Hull, 1949e:240, fig. 232 (abdomen). N. COMB.
- divisa* Walker, 1857:156 (*Pipiza*). Type-locality: Mexico, Vera Cruz. Type ♀ BM(NH).
- dolosa* Walker, 1857:156 (*Pipiza*). Type-locality: Brazil?, "Valley of Amazon". Type ♂ BM(NH).

- var. RUFIFACIES (Doesburg), 1966:71 (*Baccha*). Type-locality: Surinam, Paramaribo. Distr. — same. Type ♂ Doesburg.
- DISJUNCTUS (Sack), 1921:132, fig. 3 (head), fig. 4 (mesonotum), fig. 5 (larva), fig. 6 (puparium) (*Doros*). Type-locality: Paraguay, St. Trinidad. Distr. — same. Types ♂ ♀ DEI. N. COMB.
- DIVERSIFACIATUS (Knab), 1914:151 (*Syrphus*). Type-locality: U.S.A., California, Walnut Creek. Distr. — Canada (British Columbia) to U.S.A. (Utah, south to California, Arizona); Mexico. Type ♂ USNM\*. Ref. — Vockeroth, 1969:164, fig. 83 (male genitalia). N. COMB.
- var. MERIDIONALIS (Fluke), 1950b:446, fig. 7-8 (male genitalia) [*Stenosyrphus* (*Episyrphus*)]. Type-locality: Argentina, Tucumán, Villa Padre Monti. Distr. — Argentina (Tucumán, Salta). Type ♂ IML.
- DIVERSUS (Williston), 1891:16, pl. 1:6 (habitus), 6a (head) (*Syrphus*). Type-locality: Mexico, Guerrero; Omiltemi, 8000 ft., Xucumanatlán, 7000 ft. Distr. — Mexico (Guerrero, Chiapas). Types ♂ ♀ BM(NH)\*. N. COMB.
- DOLOROSUS (Hull), 1950c:225 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- DRACULA (Hull), 1943a:52 (*Baccha*). Type-locality: Honduras, Puerto Castilla. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:152 (re-description), 232, fig. 205 (abdomen). N. COMB.
- DRUIDA (Hull), 1947a:398 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Peru, Brazil (Santa Catarina, Paraná). Type ♂ AMNH\*. Ref. — Hull, 1949e:248, fig. 258 (abdomen). N. COMB.
- DRYOPE (Hull), 1958:427 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- DUIDA (Hull), 1947b:238 (*Baccha*). Type-locality: Venezuela, Mt. Duida. Distr. — Venezuela, Argentina (Tucumán, Salta). Type ♂ AMNH\*. Ref. — Hull, 1949e:250, fig. 267 (abdomen); 268, fig. 341 (wing). N. COMB.
- EBLIS (Hull), 1943j:65, fig. 85 (abdomen) (*Styxia*). Type-locality: Ecuador, Bolivar, Hda. Talahua. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:208, fig. 85 (abdomen). N. COMB.
- ELEGANS (Giglio-Tos), 1892d:2 (*Melanostoma*). Type-locality: Mexico, Orizaba. Types ♂ ♀ UTOR\*. Ref. — Giglio-Tos, 1893:fig. 21 (head). N. COMB.
- ELNORA (Shannon), 1927a:9, fig. 5 (wing tip) (*Calostigma*). Type-locality: Bolivia, Beni, Rurrenabaque. Distr. — Ecuador, Peru (Cuzco), Bolivia. Type ♀ USNM. Ref. — Hull, 1949e:232, fig. 193 (abdomen); 260, fig. 308 (wing). N. COMB.
- EREBUS (Hull), 1943h:137 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:240, fig. 228 (abdomen). N. COMB.
- ERRATICUS (Williston), 1888:264 (*Syrphus*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Peru, Brazil (Mato Grosso). Types ♂ ♀ AMNH\*. Ref. — Fluke, 1942:22, fig. 10 (head); Vockeroth, 1969:164, fig. 78 (superior lobe). N. COMB.
- ERUPTOVA (Hull), 1943k:40 (*Baccha*). Type-locality: Peru, Loreto, Iquitos. Distr. — same. Type ♀ USNM. Ref. — Hull, 1949e:204, fig. 61 (abdomen); 276, fig. 365 (wing). N. COMB.



- EXIGUUS (Williston), 1888:267 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Types ♂ ♀ AMNH\*. Ref. — Hull, 1949e:200, fig. 46 (abdomen); 230, fig. 186 (abdomen). N. COMB.
- FASCIATUS Roeder, 1885:342. Type-locality: Porto Rico. Distr. — same. Type ♂ (Zool. Univ. Mus., Halle a. S.; Horn & Kahle, 1936:228).
- FERVIDUS (Austen), 1893:158, pl. 5:11 (habitus) (*Baccha*). Type-locality: Brazil, Pará, Santarém, R. Tapajós. Distr. — same. Type ♂ BM(NH). N. COMB.
- FIAMETTA (Hull), 1943j:75, fig. 13 (abdomen) (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:153 (redescription), 194, fig. 13 (abdomen). N. COMB.
- FILII (Doesburg), 1966:73, fig. 59 (habitus, head, abdomen) (*Baccha*). Type-locality: Surinam, Paramaribo, Marienburg. Distr. — same. Type ♂ Doesburg. N. COMB.
- FILIOLUS (Shannon), 1927a:30 (*Baccha*). Type-locality: Chile, Valparaíso. Distr. — Chile (Valparaíso, Santiago). Type ♂ USNM. Ref. — Hull, 1949e:230, fig. 180 (abdomen). N. COMB.
- FILISSIMUS (Hull), 1943j:79, fig. 42 (abdomen) (*Baccha*). Type-locality: Colombia, Muzo. Distr. — same. Type ♀ Hull. Ref. — Hull, 1949e:200, fig. 42 (abdomen). N. COMB.
- FLATUS (Hull), 1940b:433 (*Baccha*). Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:202, fig. 56 (abdomen). N. COMB.
- lopesae* Curran, 1941:269 (*Baccha*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Tijuca. Type ♂ AMNH\*. N. SYN.
- FLAVENS (Austen), 1893:153, pl. 5:10 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — same. Type ♀ BM(NH). N. COMB.
- FLAVIPENNIS (Wiedemann), 1830:123 (*Syrphus*). Type-locality: "Brazil". Distr. — Colombia, Ecuador, Peru, Brazil (São Paulo, Mato Grosso). Types ♂ ♀ ZMB. Ref. — Hull, 1949e:204, fig. 65 (abdomen). N. COMB.
- FLUKEI (Curran), 1941:284 (*Salpingogaster*). Type-locality: Ecuador, Tungurahua, Baños. Distr. — same. Type ♂ AMNH. Ref. — Hull, 1949e:240, fig. 229 (abdomen). N. COMB.
- phobia* Hull, 1943c:51 [*Baccha* (*Mimocalla*)]. Type-locality: Ecuador, Tungurahua, Baños, Chaupi. Type ♂ AMNH\*.
- FLUKIELLA (Curran), 1941:275 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:198, fig. 39 (abdomen). N. COMB.
- FRAGMENTARIUS (Hull), 1947a:405 (*Baccha*). Type-locality: Mexico, Tapachula Mts. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:242, fig. 237 (abdomen); 274, fig. 259 (wing). N. COMB.
- FRATERNUS Bigot, 1883b:324. Type-locality: "Mexico". Distr. — same. Type ♀ BM(NH)? N. COMB.
- FUNEBRIS Macquart, 1834:554. Type-locality: "Brazil". Distr. — U.S.A. (Texas), south to Brazil (São Paulo, Santa Catarina). Type(s) ♂ MNHN (lost?)\*. Ref. — Hull, 1949e:276, figs. 160 & 162 (abdomens); 278, fig. 370 (wing). N. COMB.
- iridipennis* Walker, 1837:345 (*Syrphus*). Type-locality: "South America". Type ♂ BM(NH).
- FUSCICOSTA Lynch Arribálzaga, 1891:255 (1892c:52). Type-locality: Argentina, Buenos Aires, Chacabuco; La Plata. Distr. — same. Types ? MACN & MUNP.

- FUSCIPENNIS (Say), 1823:100 (*Baccha*). Type-locality: U.S.A., Pennsylvania. Distr. — Canada (Quebec), west to U.S.A. (Wisconsin and Colorado), south to Mexico (Vera Cruz), Guadaloupe, Cuba. Type ? lost. Ref. — Hull, 1949e:222, fig. 145 (abdomen); 226, fig. 167 (abdomen); 232, fig. 192 (abdomen); 280, fig. 379 (wing). N. COMB.
- fenestratus* Bigot, 1885a:251. Type-locality: "Mexico". Type ♂ OXF. N. SYN.
- fenestratus* Hull, 1949e:280, fig. 381 (wing) (*Baccha*; as a variety of *fuscipennis*; preocc. Bigot, 1885). *Nomen nudum*.
- GASTROSTACTUS (Wiedemann), 1830:123 (*Syrphus*). Type-locality: "Brazil". Distr. — U.S.A. (Texas & Florida), south to Brazil (Santa Catarina). Types ♂ VMNH\* & AMNH\*. Ref. — Hull, 1943j:65, fig. 2 (alula); 1949e:226, figs. 163-164 (abdomens); 258, figs. 299-300 (wings). N. COMB.
- trigonus* Wiedemann, 1830:126 (*Syrphus*). Type-locality: "Brazil". Types ♂ ZMB & VMNH (missing)\*.
- costalis* Walker, 1837:342 (*Pipiza*, preocc. Wiedemann, 1830). Type-locality: South America. Type ♀ BM(NH).
- pica* Walker, 1857:156 (*Pipiza*). Type-locality: "Valley of Amazon". Type ♀ BM(NH).
- notatus* Coquillett, 1902:195 (preocc. Loew, 1866). Type-locality: Mexico, Tabasco, Frontera. Types ♂ USNM.
- GEIJSKESI (Doesburg), 1966:75, fig. 60 (habitus) (*Baccha*). Type-locality: Surinam, Paramaribo, Botanical Garden (Cultuurtuin). Distr. — same. Type ♂ Doesburg. N. COMB.
- GIGANTEUS (Schiner), 1868:340 (*Baccha*). Type-locality: "South America". Distr. — same. Types ♂ & ♀ VMNH\*. N. COMB.
- GILVUS (Austen), 1893:154, pl. 5:7 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — same. Type ♂ BM(NH)\*. N. COMB.
- GLOBICEPS (Hull), 1937b:30 (*Pipunculosyrphus*). Type-locality: Paraguay, San Bernardino. Distr. — Brazil (Santa Catarina), Paraguay. Type ♂ VMNH. Ref. — Hull 1949e:192, fig. 3 (abdomen); 266, fig. 334 (wing). N. COMB.
- tiara* Curran, 1941:271 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♀ AMNH\*.
- GOLBACHI (Fluke), 1950b:441, fig. 1 (abdomen) [*Stenosyrphus* (*Episyrphus*)]. Type-locality: Argentina, Tucumán, Villa Padre Monti. Distr. — same. Type ♀ IML. N. COMB.
- GRATUS (Curran), 1941:270 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:236, fig. 214 (abdomen), 276, fig. 366 (wing). N. COMB.
- HALCYONE (Hull), 1949b:244 (*Baccha*). Type-locality: Peru, Chanchamayo, 1100 m. Distr. — same. Type ♂ Hull. N. COMB.
- HARLEQUINUS (Hull), 1948a:10 (*Baccha*). Type-locality: Brazil, Rio Grande do Norte, Natal. Distr. — Brazil (Natal), Argentina. Type ♂ AMNH\*. Ref. — Hull, 1949e:250, fig. 268 (abdomen), 254, fig. 289 (wing). N. COMB.
- HIANTHA (Hull), 1943j:74 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:154 (redescription), 212, fig. 96 (abdomen), 272, fig. 356 (wing). N. COMB.
- HIPPOLYTE (Hull), 1957:187 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull. N. COMB.



- HIRTUS (Shannon), 1927a:11 (*Baccha*). Type-locality: Bolivia, Beni, Ivon. Distr. — same. Type ♂ USNM. Ref. — Hull, 1949e:154 (redescription), 250, fig. 271 (abdomen). N. COMB.
- HIRUNDELLA (Hull), 1944g:59 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH. Ref. — Hull, 1949e:155 (redescription), 212, fig. 99 (abdomen). N. COMB.
- HYACINTHIA (Hull), 1947a:409 (*Baccha*). Type-locality: Cuba, Soledad. Distr. — same. Type ♀ Hull. Ref. — Hull, 1949e:246, fig. 252 (abdomen). N. COMB.
- HYALIPENNIS (Curran), 1930e:15 (*Callostigma*). Type-locality: Honduras, Tegucigalpa. Distr. — Honduras, Argentina (Tucumán). Type ♀ AMNH\*. Ref. — Hull, 1949e:230, fig. 183 (abdomen), 260, fig. 311 (wing). N. COMB.
- IDA (Curran), 1941:279 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Paraguay, Argentina (Jujuy). Type ♂ AMNH\*. Ref. — Hull, 1949e:156 (redescription), 194, figs. 12, 18 (abdomen), 262, fig. 319 (wing), 274, fig. 358 (wing). N. COMB.
- var. IDELLA (Hull), 1949e:159, fig. 107 (abdomen) (*Baccha*). Type-locality: Paraguay, Villarica. Type ♂ USNM.
- IDANUS (Curran), 1941:276 (*Baccha*). Type-locality: Peru, Rio Putumayo. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:240, fig. 230 (abdomen), 278, fig. 373 (wing). N. COMB.
- IMMACULATUS (Macquart), 1842:158 (98), tab. 17, figs. 1 (head), 1a (wing) (*Syrphus*). Type-locality: "Chile or Brazil". Distr. — same. Type ♀ MNHN\*. N. COMB.
- INCA (Curran), 1939d:4 (*Baccha*). Type-locality: Peru. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:200, fig. 50 (abdomen). N. COMB.
- INFANTA (Hull), 1943j:74 (*Baccha*). Type-locality: Colombia, Muzo. Distr. — same. Type ♂ Hull, 1949e:159 (redescription), 224, fig. 151 (abdomen). N. COMB.
- INFUSCATUS Bigot, 1883b:324. Type-locality: Mexico. Distr. — Mexico, Jamaica, Puerto Rico. Types ♂ BM(NH). N. COMB.
- INORNATUS (Walker), 1837:342 (*Baccha*). Type-locality: "South America". Distr. — same. Type ♂ BM(NH). N. COMB.
- INSULARIS (Bigot), 1883b:330 (*Doros*). Type-locality: "Cuba". Distr. — same. Type ♀ BM(NH)\* N. COMB.
- IO (Hull), 1944g:61 (*Baccha*). Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:236, fig. 208 (abdomen), 268, fig. 342 (wing). N. COMB.
- IONA (Curran), 1941:265 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:242, fig. 234 (abdomen), 278, fig. 371 (wing).
- IRIS Austen, 1893:133, pl. 4:1 (habitus). Type-locality: Jamaica, Cinchona. Distr. — same. Type ♀ BM(NH). N. COMB.
- ISTHMUS Thompson (for *Callostigma panamensis* Curran). Distr. — Panama. Ref. — Hull, 1949e:212, fig. 103 (abdomen). NOM. NOV.  
*panamensis* Curran, 1930f:8 (*Callostigma*; preocc. Curran, 1930). Type-locality: Panama, Canal Zone, Barro Colorado Island. Type ♀ AMNH\*.
- JACTATOR (Loew), 1861:40 (*Syrphus*). Type-locality: Cuba. Distr. — U.S.A. (Florida), Cuba. Type ♂ MCZ\*. Ref. — Fluke, 1942:23, fig. 33 (abdomen); 1950a:127, fig. 133 (male genitalia). N. COMB.
- JOHNSONI (Curran), 1934b:392 (*Baccha*). Type-locality: Guyana, Bartica.

- Distr. — same. Type ♀ MCZ. Ref. — Hull, 1949e:159 (redescription), 252, fig. 281 (abdomen). N. COMB.
- LANEI (Fluke), 1950b:444, fig. 4 (male genitalia) [*Stenosyrphus* (*Episyrphus*)]. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil (São Paulo, Rio de Janeiro). Type ♂ MZUSP. N. COMB.
- LATICAUDA (Curran), 1941:217 (*Baccha*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:224, fig. 158 (abdomen), 266, fig. 333 (wing). N. COMB.
- LATIUSCULUS Loew, 1866b:39 (1872b:99). Type-locality: Cuba. Distr. — U.S.A. (Florida); Cuba, Jamaica. Type ♀ MCZ.
- LATIVENTRIS (Curran), 1941:277 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:244, fig. 246 (abdomen). N. COMB.
- LAUDABILIS (Williston), 1891:36 (*Baccha*). Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas, 7000 ft. Distr. — same. Type ♀ BM(NH)\*. N. COMB.
- LAUTUS (Giglio-Tos), 1892d:2 (*Syrphus*). Type-locality: Mexico, Tuxpango. Distr. — same. Type ♂ UTOR\*. Ref. — Giglio-Tos, 1893:figs. 4 (abdomen), 4a (head). N. COMB.
- LEPIDUS (Macquart), 1842:169 (109), tab. 19, fig. 1 (habitus) (*Baccha*). Type-locality: ??? Distr. — Mexico, Panama. Type(s) ♂ MNHN. Ref. — Hull, 1949e:192, fig. 5 (abdomen), 202, fig. 58 (abdomen). N. COMB.
- LEUCOPODUS (Hull), 1948a:5 (*Baccha*). Type-locality: Brazil, Goiás. Distr. — Brazil (Goiás, São Paulo). Type ♀ Hull. Ref. — Hull, 1949e:160 (redescription), 212, fig. 100 (abdomen). N. COMB.
- LEVISSIMUS (Austen), 1893:146, pl. 4:15 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — Peru, Brazil. Types ♂ BM(NH). Ref. — Hull, 1949e:238, fig. 220 (abdomen), 268, fig. 337 (wing). N. COMB.
- LIMPIDAPEX (Curran), 1941:282 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:212, fig. 104 (abdomen), 282, fig. 385 (wing). N. COMB.
- LINEATUS (Macquart), 1846:267 (139), tab. 20, fig. 5 (habitus) (*Baccha*). Type-locality: Mexico, Yucatán. Distr. — U.S.A. (Florida, Texas), Mexico (Yucatán). Type ♀ MNHN? Ref. — Hull, 1949e:236, fig. 206 (abdomen). N. COMB.
- var. *connexus* (Hull), 1949e:236, fig. 207 (abdomen) (*Baccha*). Type-locality: ? Type ? ? *Nomen nudum*.
- LIVIDUS (Schiner), 1868:343 (*Baccha*). Type-locality: "South America". Distr. — Mexico, Honduras, Panama, Colombia, Guyana, Trinidad, Peru, Brazil. Types ♂ ♀ VMNH\*. Ref. — Hull, 1949e:196, fig. 26 (abdomen), 281, fig. 124 (abdomen), 268, fig. 336 (wing). N. COMB.
- LUCRETIA (Hull), 1949i:230 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- LUCTUOSUS (Bigot), 1883b:334 (*Baccha*). Type-locality: "Mexico". Distr. — Mexico, ?Costa Rica (Fluke, 1956:252). Type ♂ BM(NH). Ref. — Hull, 1949e:242, fig. 239 (abdomen). N. COMB.
- LUGUBRIS (Philippi), 1865:749 (*Baccha*). Type-locality: Chile, Corral. Distr. — Chile (Aysén). Type(s) ? MNHNS. N. COMB.
- nigrifrons* Bigot, 1883b:335 (*Baccha*). Type-locality: Chile. Type ♂ BM(NH).

- MACER (Curran), 1930a:13 (*Baccha*). Type-locality: Paraguay, San Bernardino. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:246, fig. 251 (abdomen), 260, fig. 309 (wing). N. COMB.
- MACROPYGA (Curran), 1941:267 (*Baccha*). Type-locality: Brasil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:196, fig. 24 (abdomen), 244, figs. 242-243 (abdomens), 260, fig. 313 (wing). N. COMB.
- MARA (Curran), 1941:274 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*. Ref. — Hull, 1949e:246, fig. 253 (abdomen), 256, fig. 293 (wing).
- MELANORRHINUS (Philippi), 1865:749 (*Baccha*). Type-locality: Chile, Valdivia. Distr. — Chile (Curicó-Aysén). Type? MNHNS. Ref. — Hull, 1949e:224, fig. 155 (abdomen), 258, fig. 301 (wing). N. COMB.
- felix* Shannon, 1927a:30 (*Baccha*). Type-locality: Chile, Valparaíso. Type ♂ USNM.
- MENTOR (Curran), 1930a:12 (*Baccha*). Type-locality: Paraguay, San Bernardino. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:248, fig. 263 (abdomen), 254, fig. 286 (wing). N. COMB.
- MEXICANUS (Curran), 1930a:6 (*Baccha*; nom. nov. for *lugubris* Williston). Distr. — Mexico (Vera Cruz, Guerrero, Tabasco). Ref. — Hull, 1949e:216, fig. 114 (abdomen); 274, fig. 360 (wing). N. COMB.
- lugubris* Williston, 1891:37 (*Baccha*; preocc. Philippi, 1865). Type-locality: Mexico, Tabasco, Venta de Zopilote, 2800 ft., Teapa; Guerrero, Chilpancingo, 4600 ft., Vera Cruz, Atoyac. Types ♂ & ♀ BM(NH) & AMNH\*.
- batesi* Curran, 1939d:10 (*Baccha*). Type-locality: Guatemala, San Sebastian, Reu. Type ♀ AMNH\*. [See Hull, 1949e:220, fig. 136 (abdomen); 282, fig. 382 (wing)].
- MICROPELECINUS (Shannon), 1927a:10 (*Baccha*). Type-locality: Bolivia, Tumupasa. Distr. — same. Type ♀ USNM. Ref. — Hull, 1949e:250, fig. 269 (abdomen). N. COMB.
- MICROPYGA (Curran), 1941:271 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH. N. COMB.
- var. *iolanthæ* Hull, 1949e:252, fig. 276 (abdomen) (*Baccha*). Locality: "Brazil". Type ? ? *Nomen Nudum*.
- MIMUS (Hull), 1949e:188 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull. N. COMB.
- MINIMUS (Hull), 1943m:214 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:208, fig. 78 (abdomen). N. COMB.
- mimima*, Hull, 1949e:208, misspelled.
- MURINUS (Curran), 1930a:12 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:230, fig. 181 (abdomen); 268, fig. 338 (wing). N. COMB.
- MYRTELLA (Hull), 1960:70 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- NASUTUS (Williston), 1891:35 (*Baccha*). Type-locality: "Mexico". Distr. — same. Types ♂ & ♀ BM(NH). Ref. — Giglio-Tos, 1893:fig. 8 (head). N. COMB.
- NECTARINUS (Hull), 1942a:94 (*Baccha*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♂ MCZ. Ref. — Hull, 1949e:196, fig. 30 (abdomen). N. COMB.
- NEPTUNUS (Hull), 1943h:138 (*Baccha*). Type-locality: Brazil, Rio de Ja-



- neiro, Japuiba, Angra dos Reis. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:192, fig. 9 (abdomen). N. COMB.
- NERISSA (Hull), 1943m:215 (*Baccha*). Type-locality: Ecuador, Pinas. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:162 (redescription), 212, fig. 97 (abdomen). N. COMB.
- NERO (Curran), 1939d:8 (*Baccha*). Type-locality: Guyana, Kaieteur. Distr. — same. Type ♂ BM(NH). N. COMB.
- NEURALIS (Curran), 1934b:395 (*Callostigma*). Type-locality: Guyana, Kartabo. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:232, fig. 195 (abdomen); 260, fig. 312 (wing). N. COMB.
- NIGROCILIA (Hull), 1943m:215 (*Baccha*). Type-locality: Brazil, São Paulo, Ilha Seca. Distr. — Brazil (São Paulo), Colombia. Type ♀ AMNH\*. Ref. — Hull, 1949e:162 (redescription), 244, fig. 248 (abdomen). N. COMB.
- var. HIRTIPES (Hull), 1943m:215 (*Baccha*). Type-locality: "Colombia". Type ? AMNH (missing — FCT). Ref. — Hull, 1949e:220, fig. 139 (abdomen).
- var. INCLUSA (Hull), 1943m:215 (*Baccha*). Type-locality: "Colombia". Type ? AMNH (missing — FCT). Ref. — Hull, 1949e:224, fig. 156 (abdomen).
- NIOBE (Hull), 1943i:73 (*Baccha*). Type-locality: Ecuador, Palmar, Manabí, 200 m. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:198, fig. 37 (abdomen). N. COMB.
- NITIDULUS (Curran), 1930a:9 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama, Brazil (Rondônia). Type ♂ AMNH\*, Ref. — Hull, 1949e:214, fig. 105 (abdomen). N. COMB.
- NODOSUS (Hull), 1930:141, fig. 8 (abdomen) (*Baccha*). Type-locality: Mexico, Vera Cruz, Jalapa. Distr. — same. Type ♂ ANSP. Ref. — Hull, 1949e:192, fig. 6 (abdomen). N. COMB.
- NORA (Curran), 1941:269 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- NORINA (Curran), 1941:267 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina), Bolivia, Argentina (Misiones, Formosa, Tucumán, Jujuy, Salta). Type ♂ AMNH\*. Ref. Hull, 1949e:196, fig. 23 (abdomen), 218, fig. 131 (abdomen), 270, fig. 347 (wing). N. COMB.
- NOTATUS (Loew), 1866b:37 (1872b:97) (*Baccha*). Type-locality: "Cuba". Distr. — same. Type ♂ MCZ\*. Ref. — Hull, 1949e:236, fig. 211 (abdomen), 240, fig. 233 (abdomen), 256, fig. 294 (wing). N. COMB.
- NYMPHAEA (Hull), 1943k:40 (*Baccha*). Type-locality: Brazil, São Paulo, Campinas. Distr. — same. Type ♂ USNM. Ref. — Hull, 1949e:238, fig. 221 (abdomen). N. COMB.
- OBLIQUUS (Curran), 1941:258 (*Callostigma*). Type-locality: Panama, Canal Zone, Chiva Chiva Trail. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:230, fig. 185 (abdomen), 260, fig. 307 (wing). N. COMB.
- OBLONGUS (Walker), 1852:221 (*Baccha*). Type-locality: Brazil. Distr. — same. Type ♀ BM(NH). N. COMB.
- OBSOLETUS (Curran), 1941:266 (*Baccha*). Type-locality: Paraguay, San Bernadino. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:222, fig. 150 (abdomen), 282, fig. 383 (wing). N. COMB.
- OCHREOLINEA (Hull), 1944c:31 (*Baccha*) [also, 1943j:98, fig. 89 (abdomen)]. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr.



- same. Type ♀ MCZ\*. Ref. — Hull, 1949e:210, fig. 89 (abdomen). N. COMB.
- OCTOMACULATUS Thompson (nom. nov. for *flukeyi* Hull). Distr. — Brazil (Santa Catarina). Ref. — Hull, 1949e:198, fig. 36 (abdomen). NOM. NOV.
- flukeyi* Hull, 1943j:67, fig. 36 (abdomen) (*Baccha*; preocc. Curran, 1941). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♀ AMNH\*.
- OENONE (Hull), 1949e:109, fig. 198 (abdomen) (*Baccha*). Type-locality: "Jamaica". Distr. — same. Type ♂? N. COMB.
- OPACUS (Fluke), 1950b:443, fig. 2 (abdomen), fig. 3 (male genitalia) [*Stenosyrphus* (*Episyrphus*)]. Type-locality: Ecuador, Tungurahua, Mt. Tungurahua, 2800 ft. Distr. — same. Type ♀ AMNH\*. Ref. — Vockeroth, 1969:164, fig. 80 (superior lobe). N. COMB.
- ORIEL (Hull), 1942a:96 (*Baccha*). Type-locality: Dominican Republic, Loma Rucilla and Mts. N., 5000-8000 ft. Distr. — same. Type ♂ MCZ. Ref. — Hull, 1949e:196, fig. 29 (abdomen), 218, fig. 126 (abdomen). N. COMB.
- ORNATIPES (Curran), 1927b:3 (*Baccha*). Type-locality: Puerto Rico, Cayey. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:232, fig. 194 (abdomen), 260, fig. 306 (wing). N. COMB.
- OVIPHORUS (Hull), 1943j:73 (*Baccha*). Type-locality: Colombia, Muzo. Distr. — same. Type ♀ Hull. Ref. — Hull, 1949e:232, fig. 191 (abdomen). N. COMB.
- CVIPOSITORIUS (Hull), 1943j:76 (*Baccha*). Type-locality: Colombia. Distr. — same. Type ♀ Hull. Ref. — Hull, 1949e:230, fig. 178 (abdomen). N. COMB.
- PANAMENSIS (Curran), 1930a:9 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:212, fig. 103 (abdomen). N. COMB.
- PANDORA (Hull), 1942i:102 (*Baccha*). Type-locality: Panama, Coclé prov., El Valle. Distr. — same. Type ♂ MCZ. Ref. — Hull, 1949e:198, fig. 38 (abdomen). N. COMB.
- PAPILIO (Hull), 1942d:45 (*Baccha*). Type-locality: Brazil, São José (?). Distr. — Brazil (Santa Catarina). Ref. — Hull, 1949e:198, fig. 38 (abdomen). N. COMB.
- PAPILIONARIUS (Hull), 1943j:71 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AM(NH)\*. Ref. — Hull, 1949e:220, fig. 133 (abdomen). N. COMB.
- PARA (Curran), 1941:280 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:163 (redescription), 194, fig. 11 (abdomen), 214, fig. 106 (abdomen), 216, fig. 115 (abdomen), 360, figs. 314 & 317 (wings). N. COMB.
- PARVICORNIS (Loew), 1861:41 (*Baccha*). Type-locality: Cuba. Distr. — U.S.A. (Florida); Cuba, Jamaica, Puerto Rico. Type ♂ MCZ. Ref. — Hull, 1949e:250, fig. 266 (abdomen). N. COMB.
- PENNATUS (Hull), 1943j:75 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado. Distr. — same. Type ♀ Hull. Ref. — Hull, 1949e:246, figs. 255-256 (abdomens), 266, fig. 329 (wing). N. COMB.
- PERI (Hull), 1943j:75 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:228, fig. 168 (abdomen). N. COMB.
- PERSIMILIS (Curran), 1930a:2 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Santa Catarina, Mato Grosso).

- Type ♀ AMNH\*. Ref. — Hull, 1949e:210, fig. 93 (abdomen). N. COMB.
- PERUVIANUS (Shannon), 1927a:10 [*Baccha* (*Pelecinoabaccha*)]. Type-locality: Peru, Chanchamayo. Distr. — Peru (Junin, Cuzco). Type ♀ USNM. Ref. — Hull, 1949e:206, figs. 69-70 (abdomens). N. COMB.
- PIIAEOPTERUS (Schiner), 1868:342 (*Baccha*). Type-locality: "South America". Distr. — Mexico (Guerrero, Tabasco, Vera Cruz), Guatemala, Peru, Brazil (Mato Grosso). Types ♂ ♀ VMNH. Ref. — Hull, 1949e:196, fig. 28 (abdomen). N. COMB.
- PHILIPPIANUS (Enderlein), 1938:235 (*Baccha*; nom. nov. for *flavicornis* Philippi). Distr. — Chile (Curicó-Valdivia). N. COMB.
- flavicornis* Philippi, 1865:749 (*Baccha*; preoc. Loew, 1863). Type-locality: Chile, Valdivia. Types ? MNHNS.
- PHILODICE (Hull), 1950c:227 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull. N. COMB.
- PIROBIFER (Hull), 1943c:50 (*Baccha*). Type-locality: Ecuador, Oriente, Puyo, 1250 m. Distr. — Ecuador. Type ♂ AMNH. Ref. — Hull, 1949e:208, fig. 83 (abdomen). N. COMB.
- bacchiformis* Vockeroth, 1969:122, fig. 13 (wing), fig. 17 (abdomen) (*Hermesomyia*). Type-locality: Ecuador, Pichincha, Tandapi, 40 km SW Quito, 1300-1500 m. Distr. — same. Type ♂ CNC\*. N. SYN.
- PILIPES (Schiner), 1868:342 (*Baccha*). Type-locality: "South America". Distr. — Brazil (Mato Grosso), Peru (Junin). Types ♂ ♀ VMNH\*. Ref. — Hull, 1949e:210, fig. 94 (abdomen), 272, fig. 350 (wing). N. COMB.
- PINKUSI (Curran), 1939d:5 (*Baccha*). Type-locality: Trinidad, Tabaquite. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:242, fig. 240 (abdomen), 284, fig. 388 (wing). N. COMB.
- PIRATA (Curran), 1939d:7 (*Baccha*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:218, fig. 125 (abdomen), 284, fig. 364 (wing). N. COMB.
- PLACIVUS (Williston), 1888:269 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Types ♂ ♀ AMNH\*. Ref. — Hull, 1949e:210, fig. 90 (abdomen). N. COMB.
- PLUTONIA (Hull), 1948a:2 (*Baccha*). Type-locality: Bolivia, Covendo. Distr. — same. Type ♀ USNM. Ref. — Hull, 1949e:166 (redescription), 194, fig. 17 (abdomen). N. COMB.
- POLA (Curran), 1939d:11 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:244, fig. 249 (abdomen), 270, fig. 348 (wing). N. COMB.
- POLISTA (Hull), 1943g:89 [*Baccha* (*Mimocalla*)]. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Buenos Aires, Tucumán). Type ♂ AMNH\*. Ref. — Hull, 1943j:65, fig. 2 (alula); 1949e:238, fig. 222 (abdomen); 236, fig. 212 (abdomen). N. COMB.
- nigriventris*, Bruch, 1923:1 (*Baccha*), misidentification.
- POTENTILA (Hull), 1942a:100 (*Baccha*). Type-locality: Paraguay, Villarrica. Distr. — same. Type ♂ MCZ. Ref. — Hull, 1949e:167 (redescription), 212, fig. 102 (abdomen). N. COMB.
- PRENES (Curran), 1930a:11 (*Baccha*). Type-locality: Brazil, Rio de Janeiro. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:196, fig. 21 (abdomen). N. COMB.



- PRINCEPS (Hull), 1944g:56 (*Baccha*). Type-locality: Ecuador, Oriente, Puyo 1000 m. Distr. — Ecuador, Peru. Type ♂ AMNH\*. Ref. — Hull, 1949e:220, figs. 132, 134 (abdomen). N. COMB.
- PRESCILLA (Hull) 1943j:79 (*Baccha*). Type-locality: Argentina, Mendoza, Potrerillos. Distr. — same. Type ♂ CU. Ref. — Hull, 1949e:168 (redescription), fig. 118 (abdomen). N. COMB.
- PROVOCANS (Curran), 1939d:6 (*Baccha*). Type-locality: Mexico, Yucatan, Chichén Itzá. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:246, 268; figs. 254 (wing), 339 (abdomen). N. COMB.
- PRUDENS (Curran), 1934b:394 (*Baccha*). Type-locality: Guyana, Kartabo. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:236, 254, 280; figs. 209 & 210 (abdomen), 285 & 377 (wing). N. COMB.
- PRUNELLA (Hull), 1943j:72 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- PTERONIS (Fluke), 1942:5 (*Epistrophe*). Type-locality: Ecuador, Tungurahua, Volcan Tungurahua, Minza Chica. Distr. — Ecuador. Type ♂ AMNH\*. Ref. — Fluke, 1950a:125, fig. 108 (male genitalia); Vockeroth, 1969:164, fig. 79 (superior lobe). N. COMB.
- PULLUS (Sack), 1921:130, fig. 2 (head) (*Baccha*). Type-locality: Paraguay, Aregua & St. Trinidad. Distr. — same. Types ♂ ♀ DEI & SMF\*. N. COMB.
- PUMILUS (Austen), 1893:148, pl. 5:12 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — Panama, Brazil. Types ♂ ♀ BM(NH). Ref. — Hull, 1949e:206, fig. 74 (abdomen). N. COMB.
- PUNCTIFRONS (Williston), 1891:36 (*Baccha*). Type-locality: Mexico, Guerrero; Omiltemi, 8000 ft.; Amula, 6000 ft.; Xucumanatlán, 7000 ft.; Sierra de las Aguas Escondidas, 9500 ft. Distr. — same. Types ♂ ♀ BM(NH)\* & AMNH\*. N. COMB.
- PYXIA (Hull), 1943j:68, fig. 81 (abdomen) (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:208, fig. 81 (abdomen). N. COMB.
- RICUS (Curran), 1939d:6 (*Baccha*). Type-locality: Puerto Rico, Mayaguez. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:244, 272; figs. 247 (abdomen), 351 (wing). N. COMB.
- RUBRICOSUS (Wiedemann), 1830:137 (*Syrphus*). Type-locality: "Brazil". Distr. — same. Types ♀ ZMB & VMNH. N. COMB.
- RUFIVENTRIS Bigot, 1883:325. Type-locality: Cuba. Distr. — same. Type ♀ BM(NH) ?.
- RUGOSIFRONS (Schiner), 1868:341 (*Baccha*). Type-locality: "South America". Distr. — Brazil. Types ♀ VMNH\*. Ref. — Hull, 1949e:238, fig. 215 (abdomen). N. COMB.
- RYL (Hull), 1943j:73, fig. 34 (abdomen) (*Baccha*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:198, fig. 34 (abdomen). N. COMB.
- SAFFRONA (Hull), 1943i:74 (*Baccha*). Type-locality: Ecuador, Manabi, Palmar. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:208, fig. 86 (abdomen). N. COMB.
- SAGITTIFERUS (Austen), 1893:144, pl. 4:14 (habitus) (*Baccha*). Type-locality: Jamaica, Cinchona. Distr. — same. Type ♀ BM(NH). N. COMB.
- SALPA (Hull), 1944j:40 (*Baccha*). Type-locality: Peru, Campamiento. Distr. — same. Type ♂ CU. Ref. — Hull, 1949e:169 (redescription), 224, fig. 154 (abdomen). N. COMB.
- SAPHO (Hull), 1943j:69 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull,

- 1949e:170 (redescription), 224, 262; figs. 157 (abdomen), 316 (wing). N. COMB.
- SARGOIDES (Macquart), 1850:455 (151), pl. 14, fig. 9 (habitus), 9a (head) (*Syrphus*). Type-locality: "Brazil". Distr. — same. Type ♂ OXF\*. N. COMB.
- SATIVUS (Curran), 1941:275 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Colombia, Brazil (São Paulo, Santa Catarina). Type ♂ AMNH\*. Ref. — Hull, 1949e:248, 254; figs. 264 (abdomen), 283 (wing). N. COMB.
- var. ARSINOE (Hull), 1949e:135, fig. 250 (abdomen) (*Baccha*). Type-locality: "Colombia". Distr. — same. Type ♂ ? N. COMB.
- arsenoe*, Fluke, 1956:262, misspelling.
- SATYRUS (Hull), 1943j:77, figs. 2 (alula), 84 (abdomen) (*Baccha*). Type-locality: Ecuador, Manabi, Palmar. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:208, fig. 84 (abdomen). N. COMB.
- SCHWARZI (Curran), 1939d:9 (*Baccha*). Type-locality: Colombia, Western Cordillera, Cali Dist. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:214, 278; figs. 111 (abdomen), 375 (wing). N. COMB.
- SCINTILLANS (Hull), 1943h:136 (*Baccha*). Type-locality: Ecuador, Morro Morro. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:208, fig. 87 (abdomen). N. COMB.
- SCUTELLATUS Loew, 1866:39 (1872b:99). Type-locality: "Cuba". Distr. — U.S.A. (Florida), Cuba, Puerto Rico, Panama, Brazil (São Paulo, Santa Catarina), Argentina (Misiones, Tucumán). Type ♀ MCZ.
- proximus* Schiner, 1868:346. Type-locality: "Brazil". Type ♂ ♀ VMNH\*. N. SYN.
- anthracoides* Bigot, 1884b:82 (?*Melanostoma*). Type-locality: "Panama". Type ♀ OXF\*. N. SYN.
- loewi* Sedman, in Wirth, et al., 1965:573 (*Baccha*; nom. nov. for *scutellatus* Loew). N. SYN.
- SELENE (Hull), 1949e:183 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull. N. COMB.
- SEPIA (Hull), 1941d:161 (*Baccha*). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo, Santa Catarina). Type ♂ Hull. Ref. — Hull, 1949e:192, fig. 10 (abdomen). N. COMB.
- SERICEUS (Walker), 1837:343 (*Pipiza*). Type-locality: "South America". Distr. — Brazil (São Paulo). Type ♂ BM(NH)\*. N. COMB.
- SHROPSHIREI (Curran), 1930a:7 (*Baccha*). Type-locality: Panama, Canal Zone, Corozal. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:240, 282; figs. 231 (abdomen), 386 (wing). N. COMB.
- SIGNIFERUS (Austen), 1893:145, pl. 4:8 (habitus) (*Baccha*). Type-locality: Brazil, Amazonas, Tefé (as Ega). Distr. — Guyana, Brazil. Type ♂ BM(NH). N. COMB.
- SILACEUS (Austen), 1893:149, pl. 5:13 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — same. Type ♀ BM(NH). N. COMB.
- SIMULATUS (Curran), 1939d:10 (*Baccha*). Type-locality: Peru, Lower Rio Tapiche. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:192, 272; figs. 2 (abdomen), 352 (wing). N. COMB.
- SMARTI (Curran), 1939d:10 (*Baccha*). Type-locality: Guyana, Mazaruni. Distr. — same. Type ♂ BM(NH). N. COMB.
- SPATULATUS (Giglio-Tos), 1892d:4 (*Baccha*). Type-locality: Mexico, Orizaba. Distr. — same. Type ♀ UTOR\*. N. COMB.
- STENOGASTER (Williston), 1888:266 (*Baccha*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Mexico (Guerrero), Brazil (Mato



- Grosso), Argentina (Salta, Tucumán). Type ♂ AMNH\*. Ref. — Hull, 1949e:232, 266, 272; figs. 189 & 190 (abdomen), 331 & 357 (wing). N. COMB.
- STIPA (Hull), 1949e:110 (*Baccha*) [also, 1943j:94, fig. 71 (abdomen)]. Type-locality: "Colombia". Distr. — same. Type ? ? N. COMB.
- STOLO (Walker), 1852:241 (*Syrphus*). Type-locality: "Brazil". Distr. — same. Type ♂ BM(NH). N. COMB.
- STRIATUS (Walker), 1852:221 (*Ascia*). Type-locality: "Brazil". Distr. — same. Type ♂ BM(NH). Ref. — Hull, 1949e:198, fig. 32 (abdomen). N. COMB.
- SUBCHALYBEUS (Walker), 1857:157 (*Syrphus*). Type-locality: "Valley of Amazon". Distr. — same. Type ? BM(NH). N. COMB.
- SUMMUS (Fluke), 1936:59, fig. 1 (abdomen) (*Baccha*). Type-locality: Brazil, Guanabara, Rio de Janeiro, Jardim Botânico. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:214, fig. 13 (abdomen), 276, fig. 368 (wing). N. COMB.
- SUSIO (Hull), 1941c:61 (*Baccha*). Type-locality: Brazil, São Paulo, Avandava. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:171 (redescription), 220, fig. 138 (abdomen). N. COMB.
- TARSALIS (Walker), 1837:345 (*Syrphus*). Type-locality: "South America". Distr. — same. Type ? BM(NH). N. COMB.
- meridionalis* Goot, 1964:215 (*Syrphus*, unjustified nom. nov. for *tarsalis* Walker; preocc. Fluke, 1950). N. SYN.
- TELESCOPICUS (Curran), 1930a:4 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:204, 206, 276; figs. 60 & 71 (abdomen), 369 (wing); Hull, 1943j:44, fig. 1 (alula). N. COMB.
- TENUIS (Walker), 1852:222 (*Baccha*). Type-locality: "Brazil". Distr. — same. Type ♀ BM(NH). N. COMB.
- THECLA (Hull), 1943j:67 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- TIARELLA (Hull), 1944g:57 [*Baccha* (*Pipunculosyrphus*)]. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:226, 256; figs. 165 & 166 (abdomen), 296 (wing). N. COMB.
- TITANIA (Hull), 1943j:70, fig. 51 (abdomen) (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Salta, Tucumán). Type ♂ AMNH\*. Ref. — Hull, 1949e:202, fig. 51 (abdomen). N. COMB.
- TRABIS (Fluke), 1942:5, fig. 6 (abdomen) (*Epistrophe*). Type-locality: Ecuador, Tungurahua, Volcan Tungurahua, Runtun. Distr. — Ecuador, Argentina (Tucumán). Type ♂ AMNH\*. Ref. — Fluke, 1950a:125, fig. 109 (male genitalia); Vockeroth, 1969:165, fig. 81 (superior lobe). N. COMB.
- TRANSATLANTICUS (Schiner), 1868:343 (*Baccha*). Type-locality: "Brazil & Colombia". Distr. — "Colombia", Peru, Brazil. Types ♂ ♀ VMNH\*. Ref. — Hull, 1949e:216, 284; figs. 119 & 120 (abdomen), 392 & 393 (wing). N. COMB.
- tricinctus* (Bigot), 1883b:333 (*Baccha*). Not neotropical; Fluke, 1956:265, error for *tricinctus* (Wulp).
- TRILOBUS (Hull), 1944b:11 (*Baccha*). Type-locality: "Amazon". Distr. — same. Type ♀ BM(NH). Ref. — Hull, 1949e:172 (redescription), 244, 258; figs. 153 (abdomen), 198 (wing). N. COMB.
- TRINIDADENSIS (Curran), 1939d:11 (*Baccha*). Type-locality: Trinidad, Ta-

- baquite. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:212, 254; figs. 98 (abdomen), 284 (wing). N. COMB.
- TRISTIS (Hull), 1930:140, fig. 7 (abdomen) (*Baccha*). Type-locality: Mexico, Vera Cruz, Jalapa, 4400 ft. Distr. — same. Type ♂ ANSP. Ref. — Hull, 1949e:173 (redescription), 194, fig. 19 (abdomen). N. COMB.
- ULRICA (Hull), 1957:188 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull. N. COMB.
- URANIA (Hull), 1949e:185 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull. N. COMB.
- URSULA (Hull), 1947b:234 (*Baccha*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:220, 226, 284; figs. 140 & 161 (abdomen), 389 (wing). N. COMB.
- VAMPYRUS (Hull), 1943j:98, fig. 95 (abdomen); 1948a:7 (*Baccha*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♀ Hull. Ref. — Hull, 1949e:210, fig. 95 (abdomen). N. COMB.
- VANDA (Hull), 1943h:136 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:174 (redescription), 214, 222, 262; figs. 110 & 148 (abdomen), 315 & 318 (wing). N. COMB.
- VANESSA (Hull), 1949e:190 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull. N. COMB.
- VARIEGATUS (Macquart), 1842:168 (108), pl. 18, fig. 4 (habitus) 4a (head) (*Baccha*). Type-locality: Brazil, Paraná, Guaratuba. Distr. — Brazil (Rio de Janeiro. Type ♀ MNHN\*. N. COMB.
- VERA (Hull), 1943j:50, fig. 43 (abdomen) (*Baccha*) [also, 1944b:10]. Type-locality: "Amazon" [1944b:10]. Distr. — same. Type ♀ BM(NH). Ref. — Hull, 1949e:200, fig. 43 (abdomen), 272, fig. 353 (wing). N. COMB.
- VERONA (Curran), 1941:272 (*Baccha*). Type-locality: Colombia, Vista Nieve. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:240, 254; figs. 225 (abdomen), 288 (wing). N. COMB.
- VESPUCCIUS (Hull), 1943l:73 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:192, fig. 1 (abdomen). N. COMB.
- VICTORIA (Hull), 1941j:181 (*Baccha*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ Hull, MZUSP. Ref. — Hull, 1949e:196, fig. 27 (abdomen). N. COMB.
- VIERECKI (Curran, 1930a:6 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama, Colombia (Santa Maria). Type ♂ AMNH\*. Ref. — Hull, 1949e:236, fig. 213 (abdomen). N. COMB.
- VIOLACEUS (Hull), 1943j:71 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:220, fig. 135 (abdomen). N. COMB.
- VIRGA (Fluke), 1942:7, fig. 9 (abdomen) (*Epistrophe*). Type-locality: Ecuador, Imbabura, Cuicocha, 3200 m. Distr. — same. Type ♀ AMNH\*. Ref. — Vockeroth, 1969:164, fig. 82 (superior lobe). N. COMB.
- VIRGILIO (Hull), 1942d:46 (*Baccha*). Type-locality Brazil, Paraná. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:204, fig. 63 (abdomen). N. COMB.
- VIRGINIO (Hull), 1941j:182 (*Baccha*). Type-locality: Brazil São Paulo, Osasco. Distr. — Brazil. Type ♂ Hull. Ref. — Hull, 1949e:244, fig. 244 (abdomen). N. COMB.

- VITTIGER (Hull), 1949c:735 [also, 1949e:123, figs. 245 (abdomen), 384 (wing)] (*Baccha*). Type-locality: Guyana, Essequibo River, Moraballi Creek. Dark Forest. Distr. — Guyana, Brazil (São Paulo). Type ♀ BM(NH). N. COMB.
- VOLCANUS (Fluke), 1942:6, fig. 8 (abdomen) (*Epistrophe*). Type-locality: Panama, Chiriquí, El Volcan. Distr. — Panama, Ecuador. Type ♂ AMNH\*. N. COMB.
- WIEDEMANNI Enderlein, 1938:234. Type-locality: "Brazil". Distr. — same. Type ♀ ZMB. Ref. — Wiedemann, 1830:124 [*p.p. flavipennis* Wiedemann].
- WILLISTONI Thompson (nom. nov. for *dolosa* Williston). Distr. — "Mexico". Ref. — Hull, 1949e:234, fig. 202 (abdomen). NOM. NOV.
- dolosa* Williston, 1891:37, pl. 1:7 (habitus), 7a+b (head) (*Baccha*; preocc. Walker, 1857). Type-locality: Mexico, Guerrero: Omiltemi, 8000 ft.; Xucumanatlan, 7000 ft.; Amula, 6000 ft.; Guatemala, Cerro Zunil, 4000-5000ft. Types ♂ ♀ (BM(NH) & AMNH\*).
- WILHELMINA (Doesburg), 1963:27, fig. 5 (habitus), 5a+b (head) (*Baccha*). Type-locality: Surinam, Paramaribo. Distr. — same. Type ♂ Doesburg. N. COMB.
- WULPIANUS (Lynch Arribálzaga), 1891:250 (1892c:47) (*Baccha*, nom. nov. for *tricinctus* Wulp). Distr. — Argentina. N. COMB.
- tricinctus* Wulp, 1888: 376, pl. 10, fig. 8 (habitus) (*Baccha*; preocc. Bigot, 1883). Type-locality: Argentina, Prov. Tucumán. Types ♂ lost?.
- XANTHOPTERUS (Wiedemann), 1830:120 (*Syrphus*). Type-locality: Brazil. Distr. — same. Type ♂ SMF\*. N. COMB.
- XANTIPPE (Hull), 1949e:177 (*Baccha*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull. N. COMB.
- ZABULON (Hull), 1949b:244 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull. N. COMB.
- ZENIA (Curran), 1941:266 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. Hull, 1949e: 250, fig. 273 (abdomen). N. COMB.
- ZENILIA (Curran), 1941:274 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1949e:250, 258; figs. 83, 272 (abdomen), 305 (wing).
- zinnia* Hull, 1943j:78, fig. 2 (alula), 82 (abdomen) (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♀ AMNH\*. N. SYN.
- ZEPHYREUS (Hull), 1947b:232 (*Baccha*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♂ USNM. Ref. — Hull, 1949e: 232, 274; figs. 188 (abdomen), 363 (wing). N. COMB.
- ZERENE (Hull), 1949b:245 (*Baccha*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- ZETEKI (Curran), 1930a:8 (*Baccha*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Honduras, Panama, Brazil (Mato Grosso). Type ♂ AMNH\*. Ref. — Hull, 1949e:175 (redescription), 204, fig. 66 (abdomen). N. COMB.
- ZILLA (Hull), 1943m:214 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Ecuador, Brazil (Santa Catarina). Type ♀ AMNH\*. Ref. — Hull, 1949e:248, fig. 262 (abdomen). N. COMB.
- ZITA (Curran), 1941:273 (*Baccha*). Type-locality: Brasil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina

(Tucumán). Type ♂ AMNH\*. Ref. — Hull, 1943j:65, fig. 2 (alula); Hull, 1949e:200, 252; figs. 45 (abdomen), 275 (wing). N. COMB.  
var. *fuscus* Hull, 1949e:252, fig. 274 (abdomen) (*Baccha*). *Nomen nudum* [♀ AMNH\*].

ZOBEIDE (Hull), 1943g:90 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:230, fig. 182 (abdomen). N. COMB.

ZOROASTER (Hull), 1943i:76, fig. 2 (alula), 80 (abdomen) (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*. Ref. — Hull, 1949e:208, fig. 80 (abdomen). N. COMB.

#### Genus SALPINGOGASTER Schiner

*Amathia* Walker, 1852:223 (preocc. Lamouroux, 1812; Roux, 1828; Duponchel, 1829; Rathke, 1837). Type-species, *costalis* Walker (mon.).

SALPINGOGASTER Schiner, 1868:344. Type-species, *pygophora* Schiner (orig. des.).

*Flexineura* Bezzi, 1908:294, *nomen nudum*.

Ref. — Sack, 1920 (rev. key); Curran, 1941 (key); Knutson, 1971 (biol.).

#### Subgenus SALPINGOGASTER Schiner

ABDOMINALIS Sack, 1920:242, fig. D (tip of abdomen). Type-locality: "Bolivia". Distr. — same. Type ♂ MD.

BEQUAERTI Curran, 1933:2. Type-locality: Guatemala, Sa. Emilia, Pochuta. Distr. — same. Type ♂ AMNH\*.

BICOLOR Sack, 1920:250, fig. m (abdomen). Type-locality: Bolivia, La Paz. Mapiri, 2000 m. Distr. — same. Type ♀ MD.

BIPUNCTIFRONS Curran, 1934b:397. Type-locality: Guyana, Kartabo. Distr. — same. Type ♀ AMNH\*.

BROWNI Curran, 1941:286. Type-locality: Ecuador, Tungurahua, Volcan Tungurahua, Minza Chica. Distr. — Ecuador. Type ♂ AMNH\*. Ref. — Hull, 1949d:297, fig. 11L (wing).

*maculipennis* Hull, 1944a:166. Type-locality: "South America". Type ♀ VMNH\*. N. SYN.

BRUNERI Curran, 1932a:6. Type-locality: Cuba, Sierra Maestra. Distr. — same. Type ♀ AMNH\*.

COENUTA Hull, 1944a:168. Type-locality: "Venezuela". Distr. — same. Type ♀ VMNH.

COSTALIS (Walker), 1852:223 (*Amathia*). Type-locality: Brazil. Distr. — same. Type ♂ BM(NH). Ref. — Sack, 1920:253 (redescription).

COTHURNATA Bigot, 1883:329. Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH) ? Ref. — Sack, 1920:246 (redescription).

DIANA Hull, 1943f:33. Type-locality: "Brazil". Distr. — same. Type ♀ Hull.

FRONTALIS Sack, 1920:243, fig. e (male abdominal tip), f (female abdomen). Type-locality: Bolivia, Coroico, 1000 m. Distr. — same. Types ♂ ♀ MD.

GRACILIS Sack, 1920:251, figs. n + o (head), p (mesonotum), q (tip of male abdomen). Type-locality: Peru, Vilcanota. Distr. — Peru. Brazil (Santa Catarina). Types ♂ ♀ UNMB.

HALCYON Hull, 1940b:434. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama, Brazil (Santa Catarina), Argentina (Formosa). Type ♂ Hull.



- compressa* Curran, 1941:284. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*. N. SYN.
- IMPURA Curran, 1941:285. Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ AMNH\*.
- LIMBIPPENNIS Williston, 1891:29. Type-locality: Mexico, Guerrero, Amula, 6000 ft. Distr. — same. Types ♂ BM(NH). Ref. — Sack, 1920:256 (redescription).
- limbippennis*, Sack, 1920:256, misspelling.
- LINEATA Sack, 1920:253, figs. r + s (male abdomen). Type-locality: Bolivia, La Paz, Mapiri. Distr. — same. Type ♂ MD.
- MINOR Austen, 1893:161, pl. 5:4 (habitus). Type-locality: Brazil, Pará. Distr. — same. Type ♀ BM(NH). Ref. — Sack, 1920:247 (redescription).
- NIGRA Schiner, 1868:344, pl. 4:4 (habitus), 4a (wing). Type-locality: "South America". Distr. — Mexico, Guatemala, Panama, Brazil, Peru, Argentina (Jujuy, Tucumán). Types ♂ ♀ VMNH\*. Ref. — Sack, 1920:254 (redescription), figs. a (wing), t, u, & v (abdomen).
- anchoratus* Bigot, 1883:328. Type-locality: "Mexico". Type ♂ BM(NH)?
- NIGRICAUDA Sack, 1920:248, fig. h (head). Type-locality: Bolivia. Distr. — same. Types ♂ ♀ UNMB.
- NOVA Giglio-Tos, 1892c:7. Type-locality: Mexico. Distr. — same. Type ♀ UTOR\*.
- PANAMANA Hull, 1944c:33. Type-locality: Panama, Bella Vista. Distr. — same. Type ♂ MCZ.
- pannamana*, Fluke, 1957:6, misspelling.
- PESSULAGYNA Hull, 1941f:48. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ Hull.
- PETIOLATA Hull, 1944a:165. Type-locality: Bolivia, Río Songo. Distr. — same. Type ♀ VMNH\*.
- PUNCTIFRONS Curran, 1929:493. Type-locality: "Cuba". Distr. — U.S.A. (Florida). Type ♂ Stanford Univ., Calif.
- PYGOPHORA Schiner, 1868:344. Type-locality: "South America". Distr. — Cuba, Panama, Mexico, Brazil. Types ♂ VMNH\*. Ref. — Sack, 1920:239 (redescription), fig. b (tip of male abdomen); Hull, 1949d:264, fig. 3e (head).
- RELICTA Curran, 1941:285. Type-locality: Cuba, Vinales. Distr. — Cuba. Type ♂ AMNH\*.
- STIGMATIPPENNIS Hull, 1940a:250. Type-locality: "Venezuela". Distr. — same. Types ♀ VMNH & Hull.
- UNCINATA Hull, 1945a:216. Type-locality: Costa Rica, La Suiza. Distr. — same. Type ♂ USNM.
- URANIA Hull, 1949i:232. Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull.
- VERA Hull, 1944a:169. Type-locality: Bolivia, Río Songo. Distr. — same. Type ♂ VMNH.
- VIRGATA Austen, 1893:159, pl. 5:4 (habitus). Type-locality: Brazil, Region of Amazon. Distr. — Brazil, Bolivia. Types ♂ ♀ BM(NH). Ref. — Sack, 1920:240 (redescription), fig. c (head).

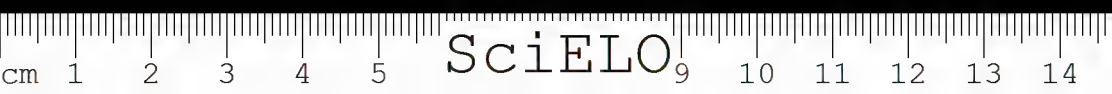
#### Subgenus EOSALPINGOGASTER Hull

- EOSALPINGOGASTER Hull, 1949d:299 (as genus). Type-species, *Baccha conopida* Philippi (orig. des.).
- CONOPIDA (Philippi), 1865:750 (*Baccha*). Type-locality: Chile, Santiago. Distr. — Brazil (São Paulo), Chile, Argentina. Types MNHNS.

- Ref. — Sack, 1920:244 (redescription), fig. g (head) [as *macula* Schiner]; Knutson, 1971:34 (description of puparium), figs. 3 + 4 (puparium).
- ?*nigriiventris* Bigot, 1883:329. Type-locality: Uruguay, Montevideo. Type ♀ BM(NH). Ref. — Sack, 1920:249 (redescription), figs. j (head), k (mesonotum); Sack, 1921:134, figs. 7 (mesonotum), 8 (puparium).
- macula* Schiner, 1868:345. Tpe-locality: "Chile". Types ♂ ♀ VMNH\*.
- nigroventris*, Williston, 1886:315, misspelling.
- mimetica* Brèthes [not Lahille], 1907:292 (*Baccha*). *Nomen nudum*.
- DACTYLOPIANA Blanchard, 1938:348, figs. 2a (puparium), b (head), c (mesonotum), d (abdomen). Type-locality: Argentina, Los Armadores, Catamarca & Entre Ríos. Distr. — same. Types ♂ [author's coll.].
- LIPOSETA Fluke, 1937:10, figs. 12 (wing), 13 (thorax). Type-locality: Ecuador, Puerto Grande, Isla Puná. Distr. — Ecuador, Argentina (Tucumán, La Rioja, Río Negro). Type ♀ AMNH\*.

### Genus ALLOGRAPTA Osten Sacken

- ALLOGRAPTA Osten Sacken, 1875:49. Type-species, *Scaeva obliqua* Say (mon.).
- Claraplumula* Shannon, 1927a:8. Type-species, *latifacies* Shannon (orig. des.).
- Fazia* Shannon, 1927a:25. Type-species, *bullaephora* Shannon (orig. des.).
- Oligorhina* Hull, 1937b:30 (preocc. Fairmaire & Germain, 1863). Type-species, *aenea* Hull (orig. des.).
- Chasmia* Enderlein, 1938:213 (preocc. Enderlein, 1922). Type-species, *hians* Enderlein (orig. des.).
- Rhinoprosope* Hull, 1942f:24 (nom. nov. for *Oligorhina* Hull). Type-species, *Oligorhina aenea* Hull (aut.). N SYN.
- Microsphaerophoria* Frey, 1946:168. Type-species, *plaumanni* Frey (orig. des.).
- Neoscaeva* Frey, 1946:170. Type-species, *Syrphus aeruginosifrons* Schiner (orig. des.). N. SYN.
- Epistrophe*, subg. *Metallograpta* Hull, 1949d:293. Type-species, *Allograpta colombia* Curran (orig. des.).
- Epistrophe*, subg. *Metepistrophe* Hull, 1949d:293. Type-species, *remigis* Fluke (orig. des.) [see Fluke, 1951c:218; Vockeroth, 1969:126].
- Antillus* Vockeroth, 1969:130. Type-species, *ascitus* Vockeroth (orig. des.). N. SYN.
- AENEAE (Hull), 1937b:31 (*Oligorhina*). Type-locality: Haiti, Mt. La Hotte, Desbarrière. Distr. — same. Type ♀ MCZ. Ref. — Hull, 1949e:222, figs. 142 & 147 (abdomen); Hull, 1949d:288, fig. 9d (head). N. COMB.
- AERUGINOSIFRONS (Schiner), 1868:352 (*Syrphus*). Type-locality: "South America". Distr. — Brazil. Types ♂ ♀ VMNH\*. N. COMB.
- ALTA Curran, 1936b:15. Type-locality: Colombia, Popayán. Distr. — Colombia; Ecuador. Type ♂ AMNH\*. Ref. — Fluke, 1942:23, fig. 31 (abdomen); Fluke, 1950a:129, fig. 134 (male genitalia).
- flavomaculata* Hull, 1937a:169. Type-locality: Colombia, Bogotá. Type ♂ USNM.
- ALTISSIMA (Fluke), 1942:10, fig. 17 (abdomen) (*Epistrophe*). Type-locality: Ecuador. Type ♂ AMNH\*. Ref. — Fluke, 1950a:127, figs. 124 & 130 (male genitalia, as *remigis*).
- ANNULIPES (Macquart), 1850:464 (160), pl. 14, fig. 18 (head) (*Paragus*).



- Type-locality: Brazil, Bahia. Distr. — Colombia, Ecuador, Peru, Brazil (Bahia, São Paulo), Bolivia. Type ♂ MNHN\*. N. COMB.
- scutellata* Sack, 1941:99 (1951:95). Type-locality: Peru, Pichis; Bolivia, Mapiri. Type ♂ ♀ MD?. N. SYN.
- geminata* Fluke, 1942:16, fig. 34 (abdomen). Type-locality: Ecuador, Río Pastaza, Santa Inés. Type ♀ AMNH\*.
- APERTA Fluke, 1942:19, fig. 48 (abdomen). Type-locality: Guyana, Kaie-teur, Savannah. Distr. — Surinam, Guyana. Type ♂ AMNH\*.
- var. NOTATA Doesburg, 1966:64. Type-locality: Surinam, Wilhelmina Mts., Camp 3. Distr. — same. Types ♂ Doesburg.
- ARGENTIPILA (Fluke), 1942:13, fig. 30 (abdomen) (*Epistrophe*). Type-locality: Ecuador, Oriente, Puyo, 1000 m. Distr. — Ecuador, Peru, Argentina (La Rioja). Type ♂ AMNH\*. Ref. — Fluke, 1950a:127, fig. 131 (male genitalia).
- ARMILLATA (Fluke), 1942:12, fig. 23 (abdomen), 24 (head) (*Epistrophe*). Type-locality: Ecuador, Bolivar, Hda. Talahua. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1950a:125, fig. 99 (male genitalia).
- ASCITA (Vockeroth), 1969:130, fig. 18 (abdomen) (*Antillus*). Type-locality: Haiti, Desbarrière, Mt. La Hotte, nr. 4000 ft. Distr. — same. Type ♀ MCZ\*. N. COMB.
- BICINCTA (Bigot), 1884b:112 (*Mesograptus*?). Type-locality: Mexico. Distr. — same. Type ♂ OXF\*. N. COMB.
- BILINEATA Enderlein, 1938:220. Type-locality: Argentina, Prov. Buenos Aires. Distr. — same. Type ♂ ZMB?
- BILINEELLA Enderlein, 1938:219. Type-locality: Colombia, "Cordilliere, terra caliente". Distr. — same. Type ♂ ZMB.
- BISINTERRPTA (Enderlein), 1938:210 (*Fazia*). Type-locality: Colombia, "Cordilliere, terra fria". Distr. — same. Type ♂ ZMB. N. COMB.
- BROWNI Fluke, 1942:17, figs. 41 & 42 (head), 43 (abdomen). Type-locality: Ecuador, Imbabura, Cuicocha, 3200 m. Distr. — same. Type ♂ AMNH\*.
- BULLAEPHORA (Shannon), 1927a:25, figs. 8 (head), 10 (wing tip) (*Fazia*). Type-locality: Chile. Distr. — Ecuador, Chile (Coquimbo — Valdivia). Type ♂ USNM\*. Ref. — Fluke, 1942:23, fig. 22 (abdomen).
- COLOMBIA Curran, 1925c:349. Type-locality: Colombia, Sierra Quemada. Distr. — Colombia, Ecuador, Brazil, Argentina (Tucumán, Salta). Type ♀ CU\*. Ref. — Fluke, 1942:12 (redescription), figs. 25 (head), 26 (abdomen); 1950a:129, fig. 135 (male genitalia).
- CUBANA Curran, 1932a:3. Type-locality: "E.E.A. [Estación Experimental Agrícola] de Cuba". Distr. U.S.A. (Florida); Bahamas, Cuba. Type ♂ AMNH\*. Ref. — Fluke, 1942:24, fig. 39 (abdomen).
- DELIBATA Enderlein, 1938:224. Type-locality: Colombia, Bogotá. Distr. — same. Types ♂ ZMB.
- DUPLOFASCIATA Enderlein, 1938:217. Type-locality: Mexico, Mexico State. Distr. — same. Type ♂ ZMB or DEI.
- EUPELTATA (Bigot), 1884b:91 (*Syrphus*). Type-locality: "Mexico". Distr. — Mexico (Chiapas). Types ♂ OXF\*.
- EXOTICA (Wiedemann), 1830:136 (*Syrphus*). Type-locality: "Brazil". Distr. — U.S.A. (Oregon to Nebraska), south to Chile (Antofagasta) and Argentina (Catamarca). Types ♂ ♀ VMNH\* & ZMB. Ref. — Fluke, 1942:24, fig. 47 (abdomen); 1950a:129, figs. 136 & 138 (male genitalia).

- quadrigena* (Thomson), 1869:500 (*Syrphus*). Type-locality: Argentina, Buenos Aires. Type ♀ NRS\*.
- fracta* Osten Sacken, 1877:331. Type-locality: U.S.A., California, Santa Monica. Type ♂ MCZ.
- skottsbergi* Enderlein, 1940:663. Type-locality: Chile, Juan Fernández Islands, Masatierra & Masafuera. Types ♂ ♀ NRS.
- FALCATA Fluke, 1942:16, fig. 36 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Colombia (Putamayo River), Venezuela (Amazonas), Ecuador, Peru (Cuzco), Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*.
- FASCIATA Curran, 1932a:4. Type-locality: "Peru". Distr. — Ecuador, Peru. Type ♀ AMNH\*. Ref. — Fluke, 1942:23, figs. 28 (head), 29 (abdomen); 1950a:129, fig. 137 (male genitalia).
- FASCIFRONS (Macquart), 1846:265 (137), pl. 11, fig. 11 (wing) (*Syrphus*). Type-locality: "Nouvelle Grenade". Distr. — same. Type ♂ OXF\*. N. COMB.
- FLAVIBUCA Enderlein, 1938:216. Type-locality: "Paraguay". Distr. — Colombia, Brazil, Paraguay, Uruguay, Argentina (Buenos Aires, Salta). Types ♂ ♀ ZMB.
- var. INTERRUPTA Enderlein, 1938:216. Type-locality: Uruguay, Montevideo. Types ♂ ♀ ZMB.
- FLAVOPHYLLA (Hull), 1943h:319 (*Rhinoprosopa*). Type-locality: Peru, Perené Valley. El Campamiento. Distr. — same. Type ♀ CU. Ref. — Hull, 1949d:269, fig. 6b (head); 1949e:222, fig. 146 (abdomen). N. COMB.
- FLUKEI Curran, 1936b:13. Type-locality: Cuba, Oriente, Sierra del Cobre, Loma del Gato. Distr. — same. Type ♂ AMNH\*.
- FORRERI (Giglio-Tos), 1893:32 (*Sphaerophoria*). Type-locality: Mexico, Durango, La Ciudad; Solco, Cuernavaca. Distr. — same. Types ♂ UTOR\*. N. COMB.
- FUNERALIA (Hull), 1944c:27 (*Epistrophe*). Type-locality: Jamaica, New Castle. Distr. — same. Type ♂ MCZ.
- FUSCISQUAMA Curran, 1927b:4. Type-locality: Puerto Rico. Ensenada. Distr. — Puerto Rico, Virgin Islands. Type ♂ AMNH\*. Ref. — Fluke, 1942:24, fig. 35 (abdomen).
- HARLEQUINA Hull, 1949a:76. Type-locality: Chile, Santiago. Distr. — same. Type ♂ Hull.
- HASTATA Fluke, 1942:17, fig. 37 (abdomen). Type-locality: Brazil, São Paulo. Distr. — Peru (Cuzco), Brazil (São Paulo). Type ♂ AMNH\*.
- HERMOSA (Hull), 1941f:48 (*Fazia*). Type-locality: Brazil, São Paulo. Distr. — Brazil (Rio de Janeiro, São Paulo, Santa Catarina). Type ♂ Hull. Ref. — Fluke, 1942:8 (redescription), fig. 14 (abdomen); 1950a:125, fig. 110 (male genitalia).
- brunneola* Frey, 1946:170 (*Neoscaeva*; as *aeruginosifrons* var.) Type-locality: Brazil, Rio de Janeiro, Niterói. Type ♀ UZMH\*. N. SYN.
- HIANS (Enderlein), 1938:213 (*Chasmia*). Type-locality: Mexico, Guadaluajara. Distr. — same. Type ♂ ZMB. N. COMB.
- HORTENSIS (Philippi), 1865:746 (*Syrphus*). Type-locality: Chile, Santiago, Valdivia. Distr. — Peru, Chile (Coquimbo — Magallanes), Argentina (Neuquén). Type(s) ? MNHNS. Ref. — Shannon, 1927a:24 (redescription); Shannon & Aubertin, 1933:131, figs. 24a & b (heads), 25a (abdomen); Fluke, 1942:24, fig. 50 (abdomen).



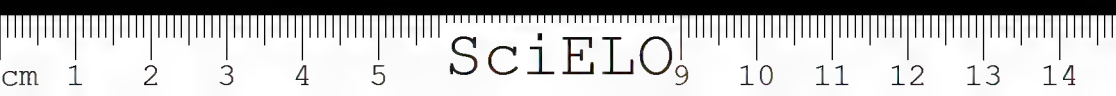
- var. BIMACULATA Enderlein, 1938:223. Type-locality: Chile, Comudes. Type ♂ ZMB.
- var. QUADRIMACULATA Enderlein, 1938:223. Type-locality: Chile, Comudes. Types ♂ ZMB.
- IMITATOR (Curran), 1925c:351 (*Epistrophe*). Type-locality: Colombia, Vista Nieve, San Lorenzo Mt. Distr. — Colombia, Ecuador, Bolivia. Type ♂ CU\*. Ref. — Fluke, 1942:23, figs. 20 (head), 21 (abdomen).
- LATIFACIES (Shannon), 1927a:8 (*Claraphumula*). Type-locality: Peru, Tincachaca, 7000 ft. Distr. — Ecuador, Peru. Type ♂ USNM\*. Ref. — Fluke, 1942:22, figs. 4 (head), 5 (abdomen); 1950a:127, figs. 127 & 125 (male genitalia); Vockeroth, 1969:165, fig. 86 (male genitalia).
- LIMBATA (Fabricius), 1805:251 (*Scaeva*). Type-locality: "Americae Insulis". Distr. — West Indies, Brazil (São Paulo, Paraná). Type ♂ MC.
- LUCIFERA (Hull), 1943m:216 (*Rhinoprosopa*). Type-locality: Ecuador, Pinas, 1600 ft. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:222, fig. 141 (abdomen). N. COMB.
- LUNA (Fluke), 1942:8, figs. 12 (abdomen), 13 (head) (*Epistrophe*). Type-locality: Ecuador, Tungurahua, Volcan Tungurahua, Minza Chica. Distr. — Ecuador. Type ♂ AMNH\*. Ref. — Fluke, 1950a:129, fig. 139 (male genitalia).
- MACQUARTI (Blanchard), 1852:411 (*Syrphus*). Type-locality: Chile, Serena. Distr. — Chile (Santiago — Malleco), Argentina (Tucumán, La Rioja, Mendoza). Type(s) ? MNHN.
- australis* Shannon, 1927a:26, fig. 7 (head) (*Fazia*). Type-locality: "Chile". Type ♂ USNM.
- MEXICANA (Enderlein), 1938:212 (*Fazia*). Type-locality: "Mexico". Distr. — same. Type ♀ ZMB.
- MICRURA (Osten Sacken), 1877:330 (*Sphaerophoria*). Type-locality: U.S.A., California, The Geysers, Sonoma County; San Rafael; Brooklyn, near San Francisco. Distr. — U.S.A. (California, Washington, Texas); Mexico (Durango, Mexico City), Guatemala, Honduras, Ecuador. Types ♂ MCZ. Ref. — Fluke, 1942:23, fig. 32 (abdomen); 1950a:129, fig. 140 (male genitalia).
- picticauda* Bigot, 1884b:102 (*Sphaerophoria*). Type-locality: Mexico. Types ♂ & ♀ OXF\*.
- MU (Bigot), 1884b:105 (*Mesograpta*?). Type-locality: "Mexico". Distr. — same. Type ♀ OXF\*.
- MUNOZI Enderlein, 1938:222. Type-locality: Colombia, Bogotá. Distr. — same. Type ♀ ZMB.
- NASIGERA (Enderlein), 1938:212 (*Fazia*). Type-locality: "Colombia". Distr. — Colombia. Types ♂ & ♀ ZMB. N. COMB.
- NASUTA (Bigot), 1884b:103 (*Sphaerophoria*). Type-locality: "Mexico". Distr. — Mexico (Durango, Chiapas). Type ♂ OXF\*. N. COMB.
- nasuta* Bigot, 1888:253 (*Sphaerophoria*; preocc. Bigot. 1884). Type-locality: "Mexico". Type ♂ OXF\*. N. SYN.
- NEOTROPICA Curran, 1936b:14. Type-locality: Colombia, Popayán. Distr. — Colombia, Ecuador, Brazil (São Paulo, Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*. Ref. — Fluke, 1942:24, fig. 49 (abdomen); 1950a:128, fig. 41 (male genitalia).
- OBLIQUA (Say), 1823:89 (*Scaeva*). Type-locality: "United States". Distr. — Canada (Quebec) west to U.S.A. (Oregon), south to Brazil (Santa Catarina). Type(s) ? lost. Ref. — Fluke, 1942:24, fig. 46 (abdomen); Vockeroth, 1969:165, fig. 85 (male genitalia).

- var. DEJONGI Doesburg, 1958:44. Type-locality: "Curaçao". Distr. — same. Type ♂ Doesburg.
- PIURANA Shannon, 1927a:9, fig. 4 (abdomen). Type-locality: Peru, Dept. Piura. Distr. — Peru, Chile. Type ♀ USNM\*. Ref. — Fluke, 1950a:129, fig. 143 (male genitalia).
- chilensis* Sack, 1941:98 (1951:94), fig. 1 (abdomen). Type-localities: Peru, Ica, Laguna Victoria near Ica, Yaucatal near Ica, Huayuri; Chile. Types ♂ ♀ MD? N. SYN.
- PLAUMANNI (Frey), 1946:168 (*Microsphaerophoria*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ UZMH\*.
- PULCHRA Shannon, 1927a:25. Type-locality: Chile, Angol. Distr. — Chile (Coquimbo — Malleco). Type ♂ USNM\*. Ref. — Shannon & Aubertin, 1933:132, figs. 24a' & 24b' (head), 25b (abdomen); Fluke, 1942:24, fig. 51 (abdomen).
- var. BIFASCIATA Enderlein, 1938:222. Type-locality: Chile, "Rango-Tal in den Cordilleren, Parral-Tal". Types ♂ ♀ ZMB.
- var. NIGRIBUCCA Enderlein, 1938:222. Type-locality: Chile. "Rango-Tal, Bäder von Longavi, Parral, Cauquenes." Types ♀ ZMB.
- var. SHANNONI Enderlein, 1938:222. Type-locality: Chile, "Rango-Tal in den Cordilleren." Type ♀ ZMB.
- QUADRICINCTA Enderlein, 1938:214. Type-locality: Colombia, Bogotá. Distr. — same. Types ♀ ZMB.
- REMIGIS (Fluke), 1942:9, fig. 15 (abdomen) (*Epistrophe*). Type-locality: Ecuador, Volcan Tungurahua, Minza Chica. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1950a:124, fig. 97 (male genitalia as *altissimus*).
- RHINA Thompson (nom. nov. for *nasuta* Enderlein). Distr. — Paraguay. NOM. NOV.
- nasuta* Enderlein, 1938:214 (*Chasmia*; preocc. Bigot, 1884, 1888). Type-locality: Paraguay. Type ♀ ZMB or DEI.
- ROBINSONIANA Enderlein, 1940:664. Type-locality: Chile, Juan Fernández Islands, Masatierra. Distr. — same. Types ♂ ♀ NRS.
- ROBURORIS (Fluke), 1942:11, figs. 18 (abdomen), 19 (head) [*Epistrophe (Fazia)*]. Type-locality: Ecuador, Bolívar, Hda. Talahua. Distr. — Ecuador, Argentina (Tucumán). Type ♂ AMNH\*.
- ROSTRATA (Bigot), 1884b:102 (*Sphaerophoria*). Type-locality: Mexico. Distr. — same. Types ♀ OXF\*. N. COMB.
- SAUSSURII (Giglio-Tos), 1892d:2 (*Syrphus*). Type-locality: Mexico, Orizaba. Distr. — same. Type ♂ UTOR\*. N. COMB.
- SCHOENEMANNI Enderlein, 1938:225. Type-locality: Chile, Cauquenes. Distr. — same. Type ♀ ZMB.
- SIMILIS Curran, 1925c:350. Type-locality: Colombia, Vista Nieve. Distr. — Colombia, Brazil (São Paulo, Santa Catarina), Argentina (Tucumán). Type ♀ CU\*. Ref. — Fluke, 1942:23, fig. 27 (abdomen); 1950a:129, fig. 144 (male genitalia).
- SPLENDENS (Thomson), 1869:501 (*Syrphus*). Type-locality: Galápagos. Distr. — same. Types ♂ ♀ NRS\*.
- STRIGIFACIES (Enderlein), 1938:211 (*Fazia*). Type-locality: "Brazil". Distr. — same. Types ♂ ♀ ZMB. N. COMB.
- SYCORAX (Hull), 1947b:239 (*Rhinoprosopa*). Type-locality: Costa Rica, La Suiza. Distr. — Costa Rica, Colombia, Venezuela. Type ♀ USNM.
- SYRPHICA (Giglio-Tos), 1892d:2 (*Sphaerophoria*). Type-locality: Mexico, Orizaba. Distr. — same. Type ♂ UTOR\*. N. COMB. Ref. — Giglio-Tos, 1893:fig. 5 (abdomen), 5a (head).
- surphica*, Fluke, 1956:216, misspelling.

- Ref. — Hull 1949e:222, 270, figs. 149 (abdomen), 344 (wing).  
N. COMB.
- TECTIFORMA Fluke, 1942:18, fig. 45 (abdomen). Type-locality: Ecuador, Imbabura Cuicocha, 3200 ft. Distr. — Ecuador. Type ♂ AMNH\*.  
Ref. — Fluke, 1950a:129, fig. 145 (male genitalia).
- TELIGERA Fluke, 1942:18, fig. 44 (abdomen). Type-locality: Brazil, Santa Catarina, Nove Teutônia. Distr. — Ecuador, Brazil (Santa Catarina). Type ♀ AMNH\*.
- TRANSVERSA (Hull), 1943f:32 (*Sphaerophoria*). Type-locality: U.S.A., Oregon, near Portland. Distr. — U.S.A. (Oregon south to Texas); Mexico. Type ♂ Hull.
- TRIBINICINCTA Enderlein, 1938:224. Type-locality: Paraguay, San Bernardino. Distr. — same. Type ♂ ZMB or DEI.
- TRIFASCIATA Enderlein, 1938:218. Type-locality: "Mexico". Distr. — same. Type ♀ ZMB.
- TRILIMBATA (Bigot), 1888:253 (*Sphaerophoria*). Type-locality: Mexico. Distr. — same. Type ♂ OXF\*. N. COMB.
- TUCUMANA Enderlein, 1938:220. Type-locality: Argentina, Prov. Tucumán. Distr. — same. Type ♂ ZMB.
- VENUSTA Curran, 1927b:5. Type-locality: Virgin Islands, St. Croix, Blessing Estate, near Krause Lagoon in south central part of island. Distr. — U.S.A. (Florida); Puerto Rico, Virgin Islands. Type ♂ AMNH\*. Ref. — Fluke, 1942:24, fig. 38 (abdomen).
- WILLISTONI (Giglio-Tos), 1893:31, figs. 6 (head), 6a (abdomen) (*Sphaerophoria*). Type-locality: Mexico, Orizaba. Distr. — same. Types ♂ ♀ UTOR\*. N. COMB.

#### Genus SPHAEROPHORIA Lapeletier & Serville

- SPHAEROPHORIA Lapeletier & Serville, in Latreille et al., 1828:513. Type-species, *Musca scripta* Linnaeus (Rondani, 1844:458).
- Melithreptus* Loew, 1840:577 (unjustified nom. nov. for *Sphaerophoria*; preocc. Vieillot, 1816). Type-species, *Musca scripta* Linnaeus (aut.).
- Melitropus* Haliday, 1856:xxi (nom. nov. for *Melithreptus* Loew). Type-species, *Musca scripta* Linnaeus (aut.).
- CONTIGUA Macquart, 1847:78 (62). Type-locality: U.S.A., Pennsylvania, Philadelphia. Distr. — Canada (British Columbia to New Brunswick), south to U.S.A. (Florida) and Mexico. Type ♂ OXF\*.
- cylindrica* Say, 1824:pl. 11 (habitus) (*Syrphus*; preocc. Fabricius, 1781). Type-locality: U.S.A., Pennsylvania, Philadelphia, Type(s) ? lost.
- fulvicauda* Bigot, 1884b:104. Type-locality: Mexico. Type ♂ OXF\*.
- PYRRHINA Bigot, 1884b:101. Type-locality: U.S.A., California. Distr. — U.S.A. (Idaho, California, Utah); Mexico [Wirth et al., 1965:570]. Type ♂ OXF.
- guttulata* Hull, 1942h:20. Type-locality: U.S.A., Idaho, Black Foot. Type ♀ Hull.
- SULPHURIPES (Thomson), 1869:500 (*Syrphus*). Type-locality: California. Distr. — U.S.A. (Alaska, southeast to Nebraska), south to Mexico, Ecuador? (specimen in BM(NH)\*. Type ♂ ♀ NRS\*.
- pachypyga* Bigot, 1884b:104. Type-locality: Mexico. Type ♂ OXF\*.



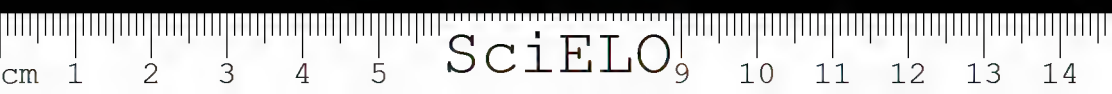
# UNRECOGNIZED SYRPHINI

## Genus ALLOGRAPTINA Enderlein

- ALLOGRAPTINA Enderlein, 1938:226. Type-species, *octomaculata* Enderlein (orig. des.).  
OCTOMACULATA Enderlein, 1938:226. Type-locality: "Mexico". Distr. — same. Type ♀ ZMB.

## Unplaced species

- AUROPULVERATUS Macquart, 1842:159 (99) (*Syrphus*). Type-locality: "Chile". Type ♂ MNHN (lost?) [label but no specimen in Macquart Collection at Paris — JRV].  
BASALIS Walker, 1837:345 (*Syrphus*). Type-locality: Brazil, St. Paul Island. Type ? BM(NH).  
*basilaris*, Williston, 1886:328, misspelling.  
CHIQUITENSIS Macquart, 1850:458 (154) (*Syrphus*). Type-locality: Bolivia, Chiquitos. Type ♀ MNHN (lost?) [label but no specimen in Macquart Collection at Paris — JRV].  
COLLUDENS Walker, 1860:293 (*Syrphus*). Type-locality: "Mexico". Type ♀ BM(NH).  
COLUMBIANUS Rondani, 1863:11 (*Syrphus*). Type-locality: "Colombia". Type ♀ MIZUN?  
DECEMMACULATUS Rondani, 1863:12 (*Syrphus*). Type-locality: "Chile". Type ♀ MIZUN?  
DELINEATUS Macquart, 1846:267 (139) (*Syrphus*). Type-locality: "Mexico". Type ♀ MRHNB.  
DISPAR Fabricius, 1794:309 (*Syrphus*). Type-locality: "America meridionalis". Types ♂ ♀ KIEL (Destroyed — Zimsen, 1964:481).  
EXCAVATUS Rondani, 1850:359 (*Syrphus*). Type-locality: South America, Río Napo, [Ecuador]. Type ♀ MCSNH?  
FASCIVENTRIS Rondani, 1850:360 (*Syrphus*). Type-locality: South America, Río Napo, [Ecuador]. Type ♀ MCSNM?  
FLAVIGASTER Hull, 1944d:51 (*Syrphus*). Type-locality: "South America, Amazons". Type ♀ BM(NH).  
FUSCANIPENNIS Macquart, 1846:264 (136) (*Syrphus*). Type-locality: "Brazil". Type ♂ OXF?  
INANIS Fabricius, 1775:763 (*Syrphus*). Type-locality: "America". Type ♀ KIEL.  
*exinanita* Gmelin, 1790:2867 (*Musca*; nom. nov. for *inanis* Fabricius).  
NIGRITUS Fabricius, 1781:427 (*Syrphus*). Type-locality: "Jamaica". Type ??  
*jamaicensis* Gmelin, 1790:2871 (*Musca*; nom. nov. for *nigritus* Fabricius).  
PLURIMACULATUS Rondani, 1863:12 (*Syrphus*). Type-locality: "Amer. Meridion.". Type ♀ MIZUN?  
PUNCTATUS Macquart, 1842:152 (92) (*Syrphus*). Type-locality: "Chile". Type ♀ MNHN [not found — JRV].  
RADIATUS Bigot, 1857:805 (*Syrphus*). Type-locality: Cuba. Type ? BM(NH)? [not at OXF — JRV].  
RONDANII Goot, 1964:215 (*Syrphus*; nom. nov. for *albitarsis* Rondani). Distr. — Brazil, São Paulo, Ilha de São Sebastião. (S. Sebastiani Island).  
*albitarsis* Rondani, 1850a:166, fig. 3 (wing) (*Syrphus*; preocc. Meigen).





1822). Type-locality: Brazil, São Paulo, Ilha de São Sebastião (S. Sebastiani Island). Type UTOR.  
VERTEBRATUS Rondani, 1863:10 (*Syrphus*). Type-locality: "Chile". Type ♂ MIZUN?

### Tribe CHRYSOTOXINI

#### Genus CHRYSOTOXUM Meigen

*Antiope* Meigen, 1800:32. Type-species, *Musca bicincta* Linnaeus (Coquillett, 1910a:508). Suppressed by I.C.Z.N., 1963:339.  
CHRYSOTOXUM Meigen, 1803:275. Type-species, *Musca bicincta* Linnaeus (Latreille, 1810:443). Ref. — Shannon, 1926b (rev.).

#### Subgenus PRIMOCHRYSOTOXUM Shannon

*Chrysotoxum*, subg. PRIMOCHRYSOTOXUM Shannon, 1926b:5. Type-species, *Chrysotoxum ypsilon* Williston (orig. des.).  
AZTEC Shannon, 1926b:8. Type-locality: Mexico, Chihuahua, Sierra Madre, 7300 ft. Distr. — same. Type ♂ USNM.  
INTEGRE Williston, 1887:16. Type-locality: U.S.A., Arizona. Distr. — Canada (British Columbia) to U.S.A. (Idaho), south to Mexico (N. Sonora). Type ♀ USNM. Ref. — Shannon, 1926b:11 (descriptive notes).

### Tribe PARAGINI

#### Genus PARAGUS Latreille

PARAGUS Latreille, 1804:194. Type-species, *Syrphus bicolor* Fabricius (mon.).

#### Subgenus PANDASYOPHTHALMUS Stuckenberg

PANDASYOPHTHALMUS Stuckenberg, 1954:100. Type-species, *Paragus longiventris* Loew (orig. des.).  
TIBIALIS (Fallén), 1817:60 (*Pipiza*). Type-locality: "Vestrogothia; Scaniae". Distr. — Holarctic, ?Africa, ?Australia, ?Oriental; Mexico. Type ? ?

### Tribe MELANOSTOMATINI

Ref. — Fluke, 1945 (rev., keys); Fluke, 1958 (male genitalia).

#### Genus CARPOSCALIS Enderlein

CARPOSCALIS Enderlein, 1938:199. Type-species, *Syrphus stegnus* Say (orig. des.).  
BERTRANDI (Austen), 1913:498 (*Melanostoma*). Type-locality: East Falkland Island. Distr. — Falkland Islands. Types ♂ ♀ BM(NH)\*. N. COMB.  
CHAETOPODA (Davidson), 1922:35 (*Melanostoma*). Type-locality: U.S.A., California, Alhambra. Distr. — U.S.A. (California, Colorado); Mexico (Mexico City). Type ♂ USNM. Ref. — Fluke, 1945:27, figs. 19 (head), 56 (front tibia of male); 1958:273, figs. 49 & 50 (male genitalia).  
CHALCONOTA (Philippi), 1865:747 (*Syrphus*). Type-locality: Chile, Santiago.

- Distr. — Colombia (Bogotá), Ecuador, Chile, Argentina (Río Negro, Tierra del Fuego). Type(s) ? MNHNS. Ref. — Fluke, 1945:15 (redescription), figs. 22 (head), 23 (antenna), 38 (abdomen); 1958:273, figs. 51 & 52 (male genitalia).
- ECUADORIENSIS (Fluke), 1945:16, figs. 25 (head), 59 (front tibia of male) [*Melanostoma (Carpascalis)*]. Type-locality: Ecuador, Imbabura. Cuicocha. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1958:273, figs. 59 & 60 (male genitalia); Hull, 1949d:289, fig. 10c (head).
- ELWARDI (Shannon & Aubertin), 1933:133 (*Melanostoma*). Type-locality: Argentina, Bariloche. Distr. — same. Type ♂ BM(NH)\*. N. COMB.
- FENESTRATA (Macquart), 1842:163 (103), tab. 17, fig. 6 (habitus), 6a (head) (*Syrphus*). Type-locality: "Chile". Distr. — Mexico (Durango, Guerrero), Brazil (Rio de Janeiro), Chile (Santiago to Magallanes), Paraguay, Argentina (Tucumán, Buenos Aires, Mendoza, Neuquén, Río Negro, Chubut, Tierra del Fuego). Types ♀ MNHN\*. Ref. — Fluke, 1945:15 (descriptive notes), figs. 21 (head), 57 (male front tibia); Fluke, 1958:273, figs. 56 & 64 (male genitalia).
- ?*producta* Macquart, 1850:458 (154), tab. 14, fig. 13 (head) (*Syrphus*). Type-locality: Chile. Types ♂ MNHN\*.
- INFLATIFRONS (Fluke), 1945:21, fig. 31 (head) (*Melanostoma*). Type-locality: Ecuador, Bolívar, Hda. Talahua. Distr. — same. Type ♀ AMNH\*. Ref. — Fluke, 1958:273, figs. 55 & 63 (male genitalia).
- LUNDEBLADI Enderlein, 1940:665. Type-locality: Chile, Juan Fernández Islands, Masatierra. Distr. — same. Type ♀ NRS. Ref. — Fluke, 1958:273, figs. 61 & 62 (male genitalia).
- MEYERI (Fluke), 1945:17, fig. 24 (head) (*Melanostoma*). Type-locality: Mexico, Mexico City. Distr. — same. Type ♀ AMNH\*. N. COMB.
- PUNCTULATA (Wulp), 1888:375 (*Melanostoma*). Type-locality: Argentina, Córdoba. Distr. — Ecuador, Peru, Brazil (São Paulo), Bolivia, Chile, Argentina (Tucumán, Catamarca, La Rioja, Jujuy, Mendoza, Buenos Aires, Río Negro, Neuquén). Types ♂ ♀ lost? Ref. — Fluke, 1945:14 (redescription), figs. 20 (head), 58 (front tibia of male); 1958:275, figs. 67 & 68 (male genitalia).
- REYNOLDSI (Shannon & Aubertin), 1933:134 (*Melanostoma*). Type-locality: Tierra del Fuego, Río Grande, Estancia Viamonte. Distr. — same. Types ♂ ♀ BM(NH)\*. N. COMB.
- SALTANA Enderlein, 1938:200. Type-locality: Argentina, Salta, 2500 m. Distr. — Ecuador, Argentina (Salta, Buenos Aires, Río Negro). Type ♂ ZMB.
- SCUTIGERA (Fluke), 1945:20, fig. 30 (head) (*Melanostoma*). Type-locality: Ecuador, Pichincha, Uyumbicho. Distr. — same. Type ♂ AMNH\*. N. COMB.
- STEGNA (Say), 1829:163 (*Syrphus*). Type-locality: "Mexico". Distr. — Canada (British Columbia) to U.S.A. (Montana), south to Mexico (Durango, Guerrero, Vera Cruz). Type ? lost. Ref. — Fluke, 1945:14, figs. 18 (head), 55 (front tibia of male); 1958:275, figs. 73 & 74 (male genitalia).
- WALKERI (Lynch Arribálzaga), 1892b:117 (1892c:75) (*Syrphus*, nom. nov. for *unicolor* Walker). N. COMB.
- unicolor* Walker, 1837:344 (*Syrphus*; preocc. Macquart, 1829). Type-locality: Argentina. Port Famine, Straits of Magellan. Type ? BM(NH)\*. N. COMB.

# Genus MELANOSTOMA Schiner

- MELANOSTOMA Schiner, 1860:213. Type-species, *Musca mellina* Linnaeus orig. des.).
- BELLUM Giglio-Tos, 1892d:3. Type-locality: "Mexico". Distr. — same. Types ♀ UTOR\*. Ref. — Giglio-Tos, 1893: fig. 7 (abdomen), 7a (head).
- CRUCIATUM Bigot, 1884b:81. Type-locality: "Mexico". Distr. — same. Type ♂ OXF\*.
- DUBIUM (Zetterstedt), 1838:609 (*Scaeva*). Type-locality: Sweden, Torne Lappmark, Juckasjärvi. Distr. — Europe; U.S.A. (Utah, Colorado); Mexico? (Wirth, *et al.*, 1965:575). Type ♀ ZML (Andersson, 1970:239, lectotype designation).
- MELLINUM (Linnaeus), 1758:594 (*Musca*). Type-locality: "Europe". Distr. — Holarctic; Mexico? [Williston, 1891:11], Argentina? [Macquart, 1850:456 (152)]. Types ♀ LSL\*. Ref. — Williston, 1887b:49 (redescription), pl. 3, fig. 9 (head).
- PICTIPES Bigot, 1884b:78. Type-locality: U.S.A., California. Distr. — Canada (British Columbia east to Nova Scotia), south to Mexico (Mexico City, Guerrero). Types ♂ OXF\*.
- pruinosa* Bigot, 1884b:79. Type-locality: U.S.A., California. Type ♀ OXF.

# Genus RHYSOPS Williston

- RHYSOPS Williston, 1907:2. Type-species, *Melanostoma rugosonassus* Williston (Coquillett, 1910a:601, as *rugonassus* Williston).
- Braziliana* Curran, 1925b:252. Type-species, *Melanostoma longicornis* Williston (orig. des.) = *longicornis* Walker.
- AGONIS (Walker), 1849:588 (*Syrphus*). Type-locality: Galápagos Islands. Distr. — same. Type ♂ BM(NH)\*. N. COMB.
- ALTISSIMUS (Fluke), 1945:20, figs. 48 & 49 (abdomen) (*Melanostoma*). Type-locality: Ecuador, Imbabura, Cuicocha. Distr. — Ecuador, Colombia. Type ♂ AMNH\*. Ref. — Fluke, 1958:277, figs. 95 & 96 (male genitalia).
- BERTHAE\* Lima, 1946:155, figs. 1 (head), 2 (abdomen), 3 (wing). Type-locality: Brazil, Rio de Janeiro. Distr. — same. Type ♂ ENA.
- BOLIVARIENSIS (Fluke), 1945:19, figs. 29 (head), 45 (abdomen) (*Melanostoma*). Type-locality: Ecuador, Bolivar, Hda. Talahua. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1958:277, figs. 97 & 98 (male genitalia).
- BROWNI (Fluke), 1945:18, figs. 27 (antenna), 28 (head), 44 (abdomen) (*Melanostoma*). Type-locality: Ecuador, Bolivar, Hda. Talahua. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1958:277, figs. 107 & 108 (male genitalia).
- CATABOMBA (Williston), 1891:12 (*Melanostoma*). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft.; Amula, 6000 ft. Distr. — same. Types ♂ BM(NH)\* & AMNH\*. Ref. — Fluke, 1945:5 (redescription), fig. 2 (head).
- COLUMBIANUS (Enderlein), 1938:202 (*Braziliana*). Type-locality: Colombia, "Cordillera, tierra templada". Distr. — same. Types ♂ ♀ ZMB.
- CRENULATUS (Williston), 1891:12, pl. 1:5 (habitus), 5a+b (head) (*Melanostoma*). Type-locality: Mexico, Guerrero, Xucumanatlán, 7000 ft.; Omiltemi, 8000 ft. Distr. — same. Types ♂ ♀ BM(NH)\* & AMNH\*. Ref. — Fluke, 1945:5, fig. 3 (head).

- CURRANI Fluke, 1937:8, fig. 10 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1945:9 (redescription), fig. 10 (head); 1958:277, figs. 101 & 102 (male genitalia).
- FASTIGATUS Fluke, 1945:4, figs. 4 (head), 37 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*. Ref. — Fluke, 1958:277, figs. 99 & 100 (male genitalia).
- FESTIVUS Fluke, 1945:10, figs. 13 (head), 42 (abdomen). Type-locality: Ecuador, Tungurahua, Baños, 1800 ft. Distr. — same. Type ♂ AMNH\*.
- FUNEREUS Hull, 1949a:74. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ Hull.
- LANEI (Fluke), 1936:61, figs. 4 (abdomen), 5 (head) (*Melanostoma*). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo, Santa Catarina), Argentina (Formosa, Salta, Tucumán). Type ♂ AMNH\*. Ref. — Fluke, 1945:26, fig. 14 (head); 1958:277, figs. 103 & 104 (male genitalia).
- lachrymellea* Hull, 1942b:10. Type-locality: Brazil, São Paulo. Type ♂ Hull.
- LINEATUS (Fluke), 1937:9, fig. 11 (abdomen) (*Melanostoma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type AMNH\*. Ref. — Fluke, 1945:7, fig. 7 (head); 1958:277, figs. 105 & 106 (male genitalia).
- LONGICORNIS (Walker), 1837:343 (*Pipiza*). Type-locality: "South America". Distr. — Guatemala, Colombia, Ecuador, Brazil (Mato Grosso, Santa Catarina), Paraguay. Type ♀ BM(NH)\*. Ref. — Fluke, 1945:3, fig. 1 (head); 1958:269, 279, figs. 4, 14, 133 (male genitalia). N. COMB.
- longicornis* Williston, 1888:263 (*Melanostoma*; preocc. Walker, 1837). Type-locality: Brazil, Mato Grosso, Chapada. Types ♂ ♀ AMNH\*. N. SYN.
- vittithorax* Hull, 1937a:176, fig. 9 (head) (*Braziliana*). Type-locality: Guatemala, Antigua. Type ♀ USNM.
- LOPESI Fluke, 1945:6, fig. 5 (head). Type-locality: Brazil, São Paulo, São José dos Campos. Distr. — same. Type ♀ AMNH\*.
- LUCULENTUS (Fluke), 1945:17, figs. 26 (head), 46 (abdomen) (*Melanostoma*). Type-locality: Ecuador, Tungurahua, Baños. Distr. — same. Type ♂ AMNH\*. N. COMB.
- MACULATUS (Walker), 1852:220 (*Paragus*). Type-locality: "Brazil". Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♀ BM(NH)\*. Ref. — Fluke, 1958:279, figs. 109 & 110 (male genitalia). N. COMB.
- minuscula* Fluke, 1945:11, figs. 16 (head), 17 (antenna), 47 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*. N. SYN.
- discretum* Frey, 1946:157 (*Melanostoma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ UZMH\*. N. SYN.
- MELANOCERA (Williston), 1891:13 (*Melanostoma*). Type-locality: Costa Rica, Río Sucio. Distr. — same. Types ♀ BM(NH).
- NEOTROPICUS (Curran), 1937:4 (*Melanostoma*). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo, Santa Catarina), Argentina (Misiones). Type ♂ AMNH\*. Ref. — Fluke, 1958:279, figs. 117 & 118 (male genitalia).
- columella* Fluke, 1945:8, figs. 9 (head), 39 & 40 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*.



- NIGRANS Fluke, 1945:8, fig. 8 (head). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina). Type ♀ AMNH\*. Ref. — Fluke, 1958:279, figs. 111 & 112 (male genitalia).
- OPACUS Fluke, 1945:10, fig. 15 (head). Type-locality: Ecuador, Chimborazo, Urbina, Cerro Chimborazo. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1958:279, figs. 115 & 116 (male genitalia).
- PERUVIANUS (Shannon), 1927a:7 (*Braziliana*). Type-locality: Peru, Río Charape. Distr. — same. Type ♂ USNM.
- POLLINOSUS Hull, 1942b:10. Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo), Argentina (Tucumán). Type ♀ Hull. Ref. — Fluke, 1945:26, fig. 11 (head); 1958:279, figs. 113 & 114 (male genitalia).
- PRAEUSTUS (Loew), 1866a:155 (1872b:29) (*Syrphus*). Type-locality: Cuba. Distr. — same. Type ♀ MCZ\*. N. COMB.
- QUADRIMACULATUS Hull, 1944c:28. Type-locality: Cuba, Wright. Distr. — Cuba, Dominican Republic. Type ♂ MCZ\*. Ref. — Fluke, 1945:9 (redescription), figs. 12 (head), 41 (abdomen).
- REX (Fluke), 1945:21, figs. 32 (head), 50 (abdomen) (*Melanostoma*). Type-locality: Ecuador, Bolivar, Hda. Talahua. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1958:277, figs. 93 & 94 (male genitalia).
- RUGOSONASUS (Williston), 1891:13 (*Melanostoma*). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft. Distr. — Mexico (Mexico City, Guerrero). Type ♀ BM(NH)\*. Ref. — Fluke, 1945:7 (redescription), fig. 6 (head); 1958:269, 279, figs. 6, 15 & 130 (male genitalia).  
*rugonasus*, Aldrich, 1905:361; Williston, 1907:2, Coquillett, 1910a:601, misspellings.
- SCITULUS (Williston), 1888:264 (*Melanostoma*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Types ♂ AMNH\*. Ref. — Fluke, 1945:7 (redescription), figs. 43 (abdomen), 54 (wing).
- THIEMEI (Enderlein), 1938:201 (*Braziliana*). Type-locality: Colombia. "Cordillera, tierra templada". Types ♂ & ♀ ZMB.
- TROPICUS (Curran), 1937:3 (*Melanostoma*). Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Ecuador, Brazil (São Paulo), Argentina (Tucumán). Type ♂ AMNH. N. COMB.

#### Genus XANTHANDRUS Verrall

- XANTHANDRUS Verrall, 1901:316. Type-species, *Musca comptus* Harris (Coquillett, 1910a:620). Ref. — Fluke, 1937 (key).
- BIGUTTATUS Hull, 1945b:73. Type-locality: Paraguay, Molino-Cué. Distr. — same. Type ♀ MCZ\*.
- BUCEPHALUS (Wiedemann), 1830:126 (*Syrphus*). Type-locality: "Brazil". Distr. — Peru, Brazil (São Paulo). Type ♂ ZMB. Ref. — Fluke, 1958:279, figs. 119 & 120 (male genitalia).
- CUBANUS Fluke, 1936:63, figs. 6 (abdomen), 7 (head). Type-locality: Cuba, Sierra del Cobra, Loma del Gato, 2600-3325 ft. Distr. — Cuba, Puerto Rico. Type ♂ AMNH\*.
- nigripes* Loew, 1866a:155 (1872b:29). (*Syrphus*, preocc. Meigen, 1822). Type-locality: "Cuba". Type ♂ MCZ\*. N. SYN.
- loewi* Gott, 1964:215 (*Syrphus*; unjustified nom. nov. for *nigripes* Loew). N. SYN.
- FLAVOMACULATUS Shannon, 1927a:6. Type-locality: Bolivia, Beni, Rurrenala-

- baque. Distr. — same. Type ♂ USNM. Ref. — Fluke, 1937:5, fig. 7 (abdomen).
- MELLINOIDES (Macquart), 1846:265 (137) (*Syrphus*). Type-locality: "Colombia". Distr. — Mexico, Colombia, Venezuela. Type ♂ OXF\*. N. COMB.
- eucerus* Bigot, 1884b:82 (*Melanostoma*?). Type-locality: Colombia, Bogotá. Type ♂ OXF\*. N. SYN.
- MEXICANUS Curran, 1930f:9. Type-locality: Mexico, Yucatán, Chichén Itzá. Distr. — U.S.A. (Texas); Mexico (Chiapas, Yucatán), Costa Rica. Type ♀ AMNH\*.
- NITIDULUS Fluke, 1937:7, fig. 8 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Jujuy, Salta). Type ♂ AMNH\*. Ref. — Fluke, 1958:279, figs. 121 & 122 (male genitalia).
- PALLIATUS (Fluke), 1945:22, figs. 33 (head), 35 (antenna), 51 & 52 (abdomen) (*Melanostoma*). Type-locality: Ecuador, Tungurahua, Minza Chica. Distr. — same. Type ♀ AMNH\*. N. COMB.
- PLAUMANNI Fluke, 1937:8, fig. 4 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*.
- QUADRINOTATUS (Bigot), 1884b:77 (*Melanostoma*?). Type-locality: "Mexico". Distr. — same. Type ♀ OXF\*. N. COMB.
- SIMPLEX (Loew), 1861:40 (*Syrphus*). Type-locality: "Cuba". Distr. — same. Type ♀ MCZ\*. N. COMB.
- SMITHI (Goot), 1964:215 (*Syrphus*; nom. nov. for *albomaculatus* Smith). Distr. — Galápagos Islands.
- albomaculatus* Smith, 1877:84 (*Syrphus*; preocc. Macquart, 1842). Type-locality: Ecuador, Galápagos Islands, Charles Island. Type ? BM(NH) [not found — JRV].

#### Genus TALAHUA Fluke

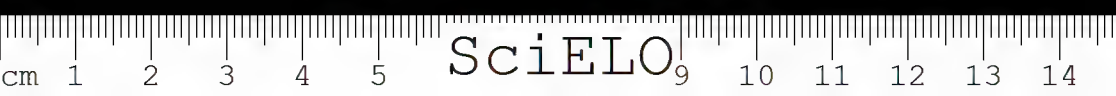
- Melanostoma*, subg. TALAHUA Fluke, 1945:22. Type-species, *fervidum* Fluke (orig. des.).
- FERVIDA (Fluke), 1945:23, figs. 34 (head), 35 (male genitalia), 53 (abdomen) (*Melanostoma*). Type-locality: Ecuador, Bolivar, Hda. Talahua. Distr. — same. Type ♂ AMNH\*. Ref. — Fluke, 1958:279, fig. 123 (male genitalia).

#### Genus TUBERCULANOSTOMA Fluke

- TUBERCULANOSTOMA Fluke, 1943:425. Type-species, *antennatum* Fluke (orig. des.). Ref. — Fluke, 1943 (key).
- ANTENNATUM Fluke, 1943:426, figs. 1 & 2 (head), 3 (antenna). Type-locality: Ecuador, Bolivar, Hda. Talahua, 3100 ft. Distr. — Ecuador. Type ♂ AMNH\*. Ref. — Fluke, 1958:279, figs. 124 & 125 (male genitalia).
- BROWNI Fluke, 1943:429, figs. 7 (head), 8 (front femur and tibia). Type-locality: Ecuador, Chimborazo, Cerro Chimborazo, Urbina, 3650 ft. Distr. — Ecuador. Type ♂ AMNH\*.
- CILIUM Fluke, 1943:428, figs. 4 & 5 (head). Type-locality: Ecuador, Tungurahua, Volcán Tungurahua, Minza Chica, 3200 ft. Distr. — same. Type ♂ AMNH\*.
- PECTINIS Fluke, 1943:430, figs. 6 (head), 9 (front femur). Type-locality: Ecuador, Bolivar, Hda. Talahua, 3100 ft. Distr. — same. Type ♂ AMNH\*.

Genus LEUCOPODELLA Hull

- LEUCOPODELLA Hull, 1949e:94. Typespecies, *Baccha lanei* Curran (orig. des.).
- Xestoprosopa* Hull, 1949e:94. Type-species, *Baccha delicatula* Hull (orig. des.). N. SYN.
- ASTHENIA (Hull), 1948a:4 (*Baccha*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Ecuador, Brazil (São Paulo, Santa Catarina). Type ♂ AMNH\*. Ref. — Hull, 1943j:65, fig. 2 (alula); 1949e:228, figs. 170 & 175 (abdomen).
- BALBOA (Hull), 1947b:230 (*Baccha*). Type-locality: Costa Rica, La Suiza. Distr. — same. Type ♂ USNM. Ref. — Hull, 1949e:228, figs. 172 & 174 (abdomen).
- BELLA (Hull), 1947a:401 (*Baccha*). Type-locality: Costa Rica, La Suiza. Distr. — same. Type ♀ USNM. Ref. — Hull, 1949e:228, fig. 173 (abdomen).
- BIGOTI (Austen), 1893:147 (*Baccha*; nom. nov. for *apicalis* Bigot). Distr. — Panama, Brazil. Ref. — Hull, 1949e:228, 264, figs. 171 (abdomen), 322 (wing).
- apicalis* Bigot, 1883b:334 (*Baccha*; preocc. Loew, 1858). Type-locality: "Brazil". Type ♀ BM(NH).
- bigotii*, Hull, 1949e:104, 287, misspelling.
- BIPUNCTIPENNIS (Hull), 1942a:99 (*Baccha*). Type-locality: Paraguay, Bella Vista. Distr. — same. Type ♀ MCZ. Ref. — Hull, 1949e:204, 264, figs. 62 (abdomen), 324 (wing).
- BOABDILLA (Hull), 1947a:403 (*Baccha*). Type-locality: Paraguay, Alto Paraná, Hohenau. Distr. — same. Type ♀ USNM. Ref. — Hull, 1949e:228, 264, figs. 177 (abdomen), 320 (wing).
- BOADICEA (Hull), 1943i:72 (*Baccha*). Type-locality: Ecuador, Pinas, 1506 m. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:202, fig. 55 (abdomen).
- CARMELITA (Hull), 1948a:9 (*Baccha*). Type-locality: Haiti, La Visite, vic. La Selle Range, 5-7000 ft. Distr. — same. Type ♀ MCZ.
- DELICATULA (Hull), 1943j:78, fig. 72 (abdomen) (*Baccha*). Type-locality: Ecuador, Tungurahua, Baños. Distr. — same. Type ♂ Hull. Ref. — Hull, 1949e:206, 264, figs. 72 (abdomen), 327 (wing). N. COMB.
- ESTRELITA (Hull), 1948a:1 (*Baccha*). Type-locality: Cuba, Trinidad Mts., Buenos Aires. Distr. — Cuba; (Argentina record in Fluke, 1956: 245, is an error). Type ♂ MCZ.
- GOWDEYI (Curran), 1926c:102 (*Baccha*). Type-locality: Jamaica, Cinchona. Distr. — same. Type ♀ BM(NH). Ref. — Hull, 1949e:206, 256, figs. 73 (abdomen), 292 (wing).
- GRACILIS (Williston), 1891:34 (*Baccha*). Type-locality: Mexico, Vera Cruz, Orizaba; Guerrero, Omiltemi, 8000 ft. Distr. — Mexico (Sinaloa, Durango, Vera Cruz, Guerrero, Chiapas). Types ♂ ♀ BM(NH)\*. Ref. — Hull, 1949e:228, fig. 176 (abdomen).
- INCOMPTA (Austen), 1893:147, pl. 4:13 (habitus) (*Baccha*). Type-locality: Brazil, Region of Amazon. Distr. — Puerto Rico, Honduras, Guyana, Argentina (Jujuy, Tucumán). Types ♂ BM(NH). Ref. — Hull, 1949e:264, fig. 323 (wing).
- LANEI (Curran), 1936b:16 (*Baccha*). Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Trinidad, Brazil (São Paulo, Santa Catarina). Type ♂ AMNH\*. Ref. — Carrera, 1940:66 (description of female), fig. 1 (habitus); Hull, 1949e:198, 264, figs. 31 (abdomen), 321 (wing); 1949d:289, fig. 10e (head).



- MARMORATA (Bigot), 1883d:333 (*Baccha*). Type-locality: "Mexico". Distr. — U.S.A. (Arizona), Mexico (Durango). Type ♂ BM(NH). Ref. — Giglio-Tos, 1893:fig. 19 (head).
- OLGA (Hull), 1942a:95 (*Baccha*). Type-locality: Panama, Chilibre. Distr. — same. Type ♀ MCZ. Ref. — Hull, 1949e:204, 264, figs. 67 (abdomen), 325 (wing).
- RUBIDA (Williston), 1891:34, pl. 1:8 (habitus), 8a+b (heads) (*Baccha*). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft.; Sierra de las Aguas Escondidas, 9500 ft. Distr. — same. Types ♂ ♀ BM(NH) & AMNH\*. Ref. — Hull, 1949e:200, 238, 264, figs. 44 (abdomen), 317 (abdomen), 326 (wing).
- ZENILLA (Hull), 1943j:77 (*Baccha*). Type-locality: Ecuador, Bolivar, Hda. Talahua, 3100 m. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1949e:238, 256, figs. 218 (abdomen), 291 (wing).

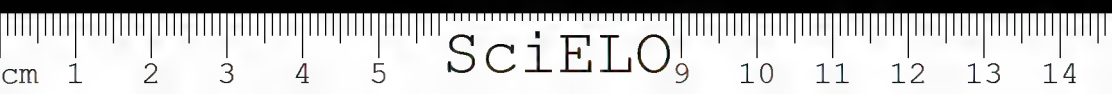
#### Unplaced species of MELANOSTOMINI

- COLUMBIANUM Enderlein, 1938:198 (*Melanostoma*). Type-locality: Colombia, "Cordilleren, tierra fria". Type ♀ ZMB?
- CRASSICALX Enderlein, 1938:197 (*Pachysphyria*). Type-locality: Brazil, Santa Catarina, Hochland. Type ♂ ♀ ZMB?
- CYANEOCINCTA (Bigot), 1885a:251 (*Melanostoma*). Type-locality: "Mexico". Type ♂ OXF?
- LIMBATUM Enderlein, 1938:198 (*Melanostoma*). Type-locality: Argentina, Prov. Tucumán. Types ♂ ♀ ZMB?
- LONGIGENA Enderlein, 1912:102 (*Melanostoma*). Type-locality: Tierra del Fuego, Ushuaia. Type ♀ ZMB?

#### Tribe TOXOMERINI

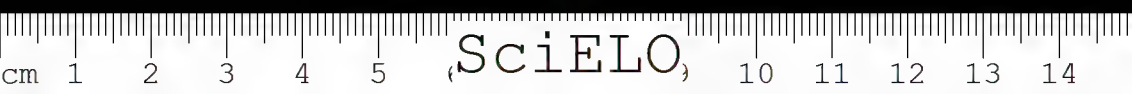
##### Genus TOXOMERUS Macquart

- TOXOMERUS Macquart, 1855:112 (1855:92). Type-species, *notatus* Macquart (orig. des.) = *geminatus* (Say).
- Mesogramma* Loew, 1866a:157 (1872b:31) (preocc. Stephens, 1850). Type-species, *parvula* Loew (Williston, 1887b:98).
- Mesograptus* Loew, 1872:114 (1872b:290) (nom. nov. for *Mesogramma* Loew). Type-species, *parvula* Loew (aut.).
- Mitrosphen* Enderlein, 1938:227. Type-species, *Syrphus tibicen* Wiedemann (orig. des.).
- Antiope* Enderlein, 1938:228. Type-species, *Mesograptus* ? *saphiridiceps* Bigot (orig. des.).
- Hybobathus* Enderlein, 1938:233. Type-species, *quadrilineatus* Enderlein (orig. des.).
- Hypobathus*, Fluke, 1956:217, misspelling.  
Ref. — Hull, 1943i (key).
- AEOLUS (Hull), 1942d:47 (*Mesogramma*). Type-locality: Cuba, Soledad, Atkins Institute, Harvard Gardens. Distr. — same. Type ♂ Hull. N. COMB.
- ALPHABETICUS (Hull), 1942a:105 (*Mesogramma*). Type-locality: Mexico, Vera Cruz, Jalapa. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1943i:35, fig. 50 (abdomen). N. COMB.
- var. FLAVOPOCULA (Hull), 1948b:9 (*Mesogramma*). Type-locality: Venezuela, San Esteban. Distr. — same. Type ♂ Hull. N. COMB.





- ANNULIFER (Bigot), 1884b:84 (*Melanostoma?*). Type-locality: "Mexico". Distr. — same. Type ♀ OXF\*. N. COMB.
- ANTHRAX (Schiner), 1868:350 (*Mesogramma*). Type-locality: "South America". Distr. — Colombia, Guyana, Ecuador, Peru. Types ♂ ♀ VMNH\*.
- var. FLAMMARIUS (Hull), 1943i:27 (*Mesogramma*). Type-locality: Honduras, Puerto Castilla. Distr. — same. Type ♂ Hull. N. COMB.
- ANTIOPA (Hull), 1951a:3 (*Mesogramma*). Type-locality: Ecuador, Chimborazo, Urbina. Distr. — Ecuador. Type ♂ AMNH\*. N. COMB.
- AQUILINUS Sack, 1941:100 (1951:96), fig. 2 (abdomen). Type-locality: Peru, Bolivia. Distr. — Panama, Peru, Brazil, Bolivia, Argentina. Types ♂ ♀ MD? Ref. — Hull, 1943i:35, fig. 41 (abdomen).  
*anchoratus*, auctorum.
- ARCIFER (Loew), 1866a:160 (1872b:34) (*Mesograptia*). Type-locality: "Cuba". Distr. — Cuba, Jamaica, Haiti, Puerto Rico, Dominica, Ecuador, Peru. Types ♂ ♀ MCZ\*. Ref. — Hull, 1943i:33, figs. 67, 68 (abdomen).
- ARCTURUS (Hull), 1943i:18 (*Mesogramma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- AURULENTUS (Williston), 1887b:102 (*Mesograptia*). Type-locality: Cuba, San Domingo. Distr. — Cuba, Costa Rica. Types ♂ ♀ USNM\*. Ref. — Hull, 1943i:29, fig. 12 (abdomen).
- AZURLINEUS (Hull), 1941i:433 (*Mesogramma*). Type-locality: British Honduras, El Cayo. Distr. — British Honduras. Type ♂ USNM\*. Ref. — Hull, 1943i:29, fig. 10 (abdomen). N. COMB.
- BARBULUS (Walker), 1852:238 (*Syrphus*). Type-locality: "Brazil". Distr. — same. Types ♀ BMMH\*. N. COMB.
- BASILARIS (Wiedemann), 1830:143 (*Syrphus*). Type-locality: "Brazil". Distr. — U.S.A. (Texas), West Indies, Greater Antilles, Lesser Antilles, Mexico, south to Chile and Argentina. Type ♂ VMNH\*.
- soror Schiner, 1868:350 (*Mesogramma*). Type-locality: "America". Types ♂ ♂ VMNH.
- variabilis Wulp, 1883:6, pl. 1, fig. 9 (abdomen) (*Mesograptia*). Type-locality: "Guadeloupe". Types ♂ MRHNB\* & MA\*.
- flavocuneus Hull, 1940b:433 (*Mesogramma*; as *basilaris* var.). Type-locality: Honduras, Salada, nr. Ceiba: Type ♀ Hull. Ref. — Hull, 1943:37, fig. 53 (abdomen). N. SYN.
- neotropicus Hull, 1943i:36, fig. 54 (abdomen) (also p. 14, as *neotropica*, in key) (*Mesogramma*). N. SYN.
- var. BIFIDUS (Hull), 1943i:26 (*Mesogramma*). Type-locality: Ecuador, Baños. Distr. — same. Type ♂ Hull? N. COMB.
- BIDENTATUS (Giglio-Tos), 1893:49, pl. II, fig. 12 (abdomen) (*Mesogramma*). Type-locality: Mexico, Acaguizotla, Chilpancingo, Tepetlapa, Medellín nr. Vera Cruz, Teapa, Orizaba and Tampico. Distr. — Mexico, Guatemala, Costa Rica, Panama. Types ♂ ♀ UTOR\*.
- BIPUNCTATUS (Hull), 1943i:23 (*Mesogramma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. N. COMB.
- BISTRIGA (Bigot), 1884b:110 (*Mesograptia?*). Type-locality: "Mexico". Distr. — Mexico, Guatemala, El Salvador, Nicaragua, Panama. Type ♀ OXF\*. Ref. — Hull, 1943i:39, fig. 71 (abdomen).
- bistrigata Aldrich, 1905:370, Fluke, 1956:219; misspellings.



- BOSCH (Macquart), 1842:160 (100), pl. 17, fig. 2 (*Syrphus*). Type-locality: "Carolina". Distr. — Southeastern U.S.A.; Mexico, Greater and Lesser Antilles. Type ♀ MNHN\*. Ref. — Hull, 1943i:38, fig. 65 (abdomen).
- BREVIFACIES (Hull), 1943i:20 (*Mesogramma*). Type-locality: Ecuador, Baños, Runtum Trail. Distr. — Ecuador, Colombia (Popayán). Type ♂ AMNH\*. N. COMB.
- brevifacia* Hull, 1943i:14 (*Mesogramma*). Incorrect original spelling.
- CALCEOLATUS (Macquart), 1842:151 (91), pl. 16, fig. 1 (head) (*Syrphus*). Type-locality: "Chile". Distr. — Chile (Coquimbo — Malleco), Argentina (Neuquén). Types ♂ ♀ MNHN\*. Ref. — Shannon & Aubertin, 1933:138, fig. 26a (abdomen). N. COMB.
- CAMILLA (Hull), 1951a:20 (*Mesogramma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- CENTAUREUS (Hull), 1951a:18 (*Mesogramma*). Type-locality: Colombia, Cali Dist., W. Cordillera. Distr. — same. Type ♂ AMNH\*. N. COMB.
- CILIATUS (Giglio-Tos), 1892d:3 (*Mesogramma*). Type-locality: Mexico, Tuxpango. Distr. — Mexico, Peru. Types ♂ ♀ UTOR\*. Ref. — Giglio-Tos, 1893:60, pl. II, fig. 16 (abdomen), 16a (head), 16b (leg).
- CIRCUMDATUS (Bigot), 1884b:107 (*Mesograptus*?). Type-locality: "Mexico". Distr. — same. Types ♂ ♀ OXF\*. Ref. — Hull, 1943i:41, fig. 74 (abdomen).
- CLARACUNEUS (Hull), 1942a:106 (*Mesogramma*). Type-locality: Ecuador, Río Margajitas, Río Pastaza. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1943i:37, fig. 49 (abdomen). N. COMB.
- CLARUS (Curran), 1930b:11 (*Mesogramma*). Type-locality: Panama, Canal Zone, New Culebra, France Field, Barro Colorado Island. Distr. — Panama (Canal Zone), Venezuela (San Esteban). Type ♂ AMNH\*. Ref. — Hull, 1943i:39, fig. 62 (abdomen). N. COMB.
- COMMA (Giglio-Tos), 1892d:4 (*Mesogramma*). Type-locality: "Mexico". Distr. — same. Types ♂ UTOR\*.
- CONFUSUS (Schiner), 1868:349 (*Mesogramma*). Type-locality: "South America" — Venezuela; Brazil, Rio de Janeiro. Distr. — Mexico, Guatemala, Nicaragua, Costa Rica, Panama, Trinidad, Tobago, Ecuador, Venezuela Brazil, Argentina. Types ♂ ♀ VMNH\*. Ref. — Hull, 1943i:31, fig. 20 (abdomen).
- maculipes* Bigot, 1884b:113 (*Mesograptus*?). Type-locality: "Brazil". Type ♂ OXF\*.
- COSTALIS (Wiedemann), 1830:140 (*Syrphus*). Type-locality: "Surinam". Distr. — Surinam. Type ♂ SMF\*. N. COMB.
- CROCKERI (Curran), 1934c:154 (*Mesogramma*). Type-locality: Galápagos Islands, Charles I. Distr. — Galápagos Islands. Type ♂ CAS\*. Ref. — Hull, 1943i:33, fig. 36 (abdomen). N. COMB.
- cocheri* Fluke, 1956:220, misspelled.
- CROESUS (Hull), 1940a:248 (*Mesogramma*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ Hull. Ref. — Hull, 1943i:31, fig. 14 (abdomen). N. COMB.
- CYRILLUS (Hull), 1951a:9 (*Mesogramma*). Type-locality: Ecuador, Macas, Río Upano. Distr. — same. Type ♂ AMNH\*. N. COMB.
- DIFFICILIS (Curran), 1930b:6, fig. 2 (male genitalia) (*Mesogramma*). Type-locality: Puerto Rico, Coamo Springs. Distr. — Puerto Rico, Guya-



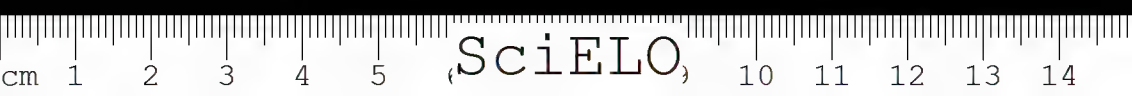
- na. Type ♂ AMNH\*. Ref. — Hull, 1943i:28, fig. 11 (abdomen). N. COMB.
- DIVERSUS (Giglio-Tos), 1892d:3 (*Mesogramma*). Type-locality: "Mexico". Distr. — same. Types ♀ UTOR\*. Ref. — Giglio-Tos, 1893:49, pl. II, fig. 13 (abdomen).
- DUPLICATUS (Wiedemann), 1830:142 (*Syrphus*). Type-locality: Uruguay, Montevideo. Distr. — Greater Antilles, Lesser Antilles, Mexico, south to Chile and Argentina. Types ♂ ♀ VMNH\*. Ref. — Hull, 1943i:33, fig. 33 (abdomen).
- ochrogaster* Thomson, 1869:494 (*Syrphus*). Type-locality: Argentina, Buenos Aires, Type ♂ NRS\*.
- ECTYPUS (Say), 1829:165 (*Syrphus*). Type-locality: "Mexico". Distr. — same. Types ? lost.
- ECUADOREUS (Hull), 1943i:19 (*Mesogramma*). Type-locality: Ecuador, Pichincha. Distr. — Ecuador. Type ♂ AMNH\*. N. COMB.
- ELISA (Hull), 1951a:5 (*Mesogramma*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ AMNH\*. N. COMB.
- ELONGATUS (Hull), 1941f:46 (*Mesogramma*). Type-locality: Colombia, Muzo, Dept. Boyaca. Distr. — Mexico, Colombia, Ecuador. Types ♂ Hull, MCZ\*. Ref. — Hull, 1943i:35, fig. 42 (abdomen). N. COMB.
- interruptus* Enderlein, 1938:227 (*Mitrosphen*; preocc. Philippi, 1865). Type-locality: Colombia, Cordillera; Mexico, Jacuapam. Types ♂ ♀ ZMB. N. SYN.
- EURYDICE (Hull), 1951a:17 (*Mesogramma*). Type-locality: Ecuador, San Francisco, Rio Pastaza. Distr. — same. Type ♂ AMNH\*. N. COMB.
- EXTRAPOLATUS (Hull), 1943i:22, fig. 24 (abdomen) (*Mesogramma*). Type-locality: Cuba, Soledad. Distr. — same. Type ♂ Hull\*. N. COMB.
- FLAVIPLURUS (Hall), 1927:239, fig. (abdomen) (*Mesogramma*). Type-locality: Guatemala, Puerto Barrios. Distr. — Guatemala; Brazil (Belém); Trinidad. Type ♀ OhSU. N. COMB.
- flavipleura* Hull, 1943i:15, 28, misspelled.
- FLAVUS (Hull), 1941i:432 (*Mesogramma*). Type-locality: Colombia, Restrepo. Distr. — Colombia, Ecuador, Peru, Bolivia. Type ♀ USNM. Ref. — Hull, 1943i:35, fig. 44 (abdomen). N. COMB.
- FLORALIS (Fabricius), 1798:563 (*Scaeva*). Type-locality: "Cajenne". Distr. — U.S.A., Florida; Greater Antilles; Lesser Antilles; Mexico, south to Chile and Argentina. Type ? Kiel (lost; ? Zimsen, 1964:481). Ref. — Hull, 1943i:35, figs. 37-40 (abdomen). N. COMB.
- flammineus* Hull, 1941h:312 (*Mesogramma*). Type-locality: Brazil, São Paulo, Severinia. Type ♂ Hull. Ref. — Hull, 1943i:6, 34 (as var.).
- FUNEŒTUS (Doesburg), 1966:65, fig. 56 (habitus) (*Mesograpt*). Type-locality: Surinam, Zanderij. Distr. — Surinam, Brazil (Pará). Type ♀ Doesburg. N. COMB.
- GEMINI (Hull), 1941h:312 (*Mesogramma*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♀ Hull, MZUSP. Ref. — Hull, 1943i:33, fig. 25 (abdomen). N. COMB.
- GUTTIFER (Hull), 1943k:39 (*Mesogramma*). Type-locality: Guatemala, Guatemala City. Distr. — Guatemala, Guyana. Type ♀ USNM\*. Ref. — Hull, 1943i:45, fig. 61 (abdomen). N. COMB.
- HARLEQUINUS (Hull), 1951b:69 (*Mesogramma*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♀ MZUSP. N. COMB.
- HERALDICUS (Bigot), 1884b:109 (*Mesograpt*?). Type-locality: "Mexico".

- Distr. — same. Types ♀ OXF\*. Ref. — Hull, 1943i:47, fig. 73 (abdomen).
- HIEROGLYPHICUS (Schiner), 1868:348 (*Mesogramma*). Type-locality: "South America". Distr. — Colombia (Magdalena, Valle del Cauca, Cauca), Ecuador. Type ♂ VMNH\*. Ref. — Hull, 1943i:31, fig. 19 (abdomen).
- HULLI Sedman, (nom. nov. for *ornatus* Hull). Distr. — Paraguay. NOM. NOV.
- ornatus* Hull, 1943f:36 (*Mesogramma*, preocc. Sack 1941). Type-locality: Paraguay, Villarica. Type ♂ AM(NH).
- IDALIUS (Hull), 1951a:11 (*Mesogramma*). Type-locality: Ecuador, Oriente, Puyo. Distr. — same. Type ♂ AMNH\*. N. COMB.
- subsp. LEDE Hull, 1951a:12 (*Mesogramma*). Type-locality: Ecuador, Oriente, Puyo. Type ♂ AMNH\*. N. COMB.
- IMPERIALIS (Curran), 1926c:103 (*Mesogramma*). Type-locality: Jamaica, Blue Castle. Distr. — same. Type ♀ BM(NH). Ref. — Hull, 1943i:35, fig. 45 (abdomen). N. COMB.
- INCAICUS Sack, 1941:101 [1951:97, fig. 3 (abdomen)]. Type-locality: Peru, Querobamba, Lago Titicaca; Bolivia. Distr. — same. Types ♂ ♀ MD?
- INSIGNIS (Schiner), 1868:347, fig. 7 (habitus), 7 a-b (head) (*Mesogramma*). Type-locality: "South America". Distr. — same. Types ♂ ♀ VMNH\*.
- INTERMEDIUS (Hull), 1949a:77 (*Mesogramma*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull. N. COMB.
- JAGUARINUS (Bigot), 1884b:112 (*Mesograptus*?). Type-locality: "Brazil". Distr. — same. Type ♂ OXF\*.
- LACINIOSUS (Loew), 1866a:159 (1872b:33) (*Mesograptus*). Type-locality: "Cuba". Distr. — Greater Antilles, Lesser Antilles, Mexico south to Brazil and Argentina. Type ♀ MCZ\*. Ref. — Hull, 1943i:35, fig. 47 (abdomen).
- LACRYMOSUS (Bigot), 1884b:107 (*Mesograptus*?). Type-locality: "Brazil; Mexico". Distr. — same. Types ♂ ♀ OXF\*. Ref. — Hull, 1943i:31, fig. 23 (abdomen).
- lacrimosus* Kertész, 1910:147, emendation.
- lachrymosus*, many authors, emendation.
- LAENUS (Walker), 1852:241 (*Syrphus*). Type-locality: "Brazil". Distr. — same. Type ♂ BMNH. Ref. — Hull, 1943i:41, fig. 79 (abdomen). N. COMB.
- laenas* Hull, 1943i:16, 40, misspelled.
- LANEI (Hull), 1942c:74 (*Mesogramma*). Type-locality: Brazil, Rio de Janeiro, Tinguá. Distr. — same. Type ♀ Hull. N. COMB.
- LIMAE (Brèthes), 1920:30 (1937:VII), (*Mesograptus*). Type-locality: Peru, Lima. Distr. — same. Type ? MACN. N. COMB.
- LIMBUS (Enderlein), 1938:229 (*Antips*). Type-locality: Uruguay, Montevideo. Distr. — same. Type ♀ ZMB. N. COMB.
- LINEARIS (Wulp), 1883:5 (*Mesograptus*). Type-locality: "Mexico". Distr. — same. Type ??.
- LUNUS (Hull), 1943i:21, fig. 80 (abdomen), (*Mesogramma*). Type-locality: Puerto Rico, Mayaguez. Distr. — Puerto Rico, Guatemala. Type ♂ USNM\*. N. COMB.
- LUTZI (Curran), 1930b:7 (*Mesogramma*). Type-locality: Panama, Canal





- Zone, Grijoles, Ft. Davis. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1943i:37, fig. 56 (abdomen). N. COMB.
- var. *FASCIATUS* (Hull), 1948b:8 (*Mesogramma*). Type-locality: Venezuela, San Esteban. Distr. — same. Type ♀ USNM\*. N. COMB.
- LYRATUS (Hull), 1940b:432 (*Mesogramma*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ Hull. Ref. — Hull, 1943i:33, fig. 26 (abdomen). N. COMB.
- MACQUARTI (Goot), 1964:214 (*Mesograptia*, nom. nov. for *amoenus* Macquart). Distr. — Venezuela, Peru, Paraguay, Bolivia. N. COMB.
- amoenus* Macquart, 1846:266 (138), pl. 13, fig. 1 (abdomen) (*Syrphus*; preocc. Loew, 1840). Type-locality: "Venezuela". Type ♀ OXF\*.
- MACULATUS (Bigot), 1884b:111 (*Mesograptia*?). Type-locality: "Cuba, Mexico, Brazil". Distr. — Greater Antilles; Mexico south to Brazil and Argentina. Types ♀ OXF\*. Ref. — Hull, 1943i:31, fig. 16 (abdomen).
- MARGINATUS (Say), 1823:92 (*Scaeva*). Type-locality: "U.S.A." Distr. — Canada, U.S.A.; Grand Bahama Island, Mexico south to Peru. Type?? Ref. — Hull, 1943i:33, fig. 28 (abdomen).
- circumcinctus* Enderlein, 1938:232 (*Mesogramma*). Type-locality: Peru, Lima. Type ♂ ZMB. N. SYN.
- MELANOASTER (Thomson), 1869:495 (*Syrphus*). Type-locality: Brazil, Rio de Janeiro. Distr. — same. Type ♀ NRS\*. N. COMB.
- MINUTUS (Wiedemann), 1830:146 (*Syrphus*). Type-locality: "Brazil". Distr. — Cuba, Brazil. Type ♀ SMF\*.
- MITIS (Curran), 1930b:13 (*Mesogramma*). Type-locality: Jamaica, Montego Bay. Distr. — same. Type ♀ AMNH. Ref. — Hull, 1943i:47, fig. 75 (abdomen). N. COMB.
- MULIO (Hull), 1941h:311 (*Mesogramma*). Type-locality: Brazil, São Paulo, Juquiá. Distr. — Colombia, Ecuador, Peru, Brazil, Argentina. Type ♂ Hull. Ref. — Hull, 1943i:29, fig. 2 (abdomen). N. COMB.
- MULTIPUNCTATUS (Wulp), 1883:6, pl. I, fig. 7 (abdomen) (*Mesograptia*). Type-locality: "Guadeloupe". Distr. — Guadeloupe, St. Vincent, Grenada. Type ♂ ? Ref. — Hull, 1943i:38, fig. 66 (abdomen).
- ferroxida* Hull, 1942f:21 (*Mesogramma*). Type-locality: St. Vincent, British West Indies. Type ♂ MCZ\*.
- MUSICUS (Fabricius), 1805:253 (*Scaeva*). Type-locality: "South America". Distr. — Cuba, Jamaica, Puerto Rico, Virgin Islands, Trinidad; Mexico south to Brazil and Argentina. Types ♀ MC\*. Ref. — Hull, 1943i:31, fig. 21 (abdomen).
- MUTUUS (Say), 1829:164 (*Syrphus*). Type-locality: "Mexico". Distr. — Mexico (Durango, Michoacán, Mexico City, Morelos, Vera Cruz, Chiapas), Guatemala. Type ?? Ref. — Hull, 1943i:43, fig. 60 (abdomen).
- NASICUS (Hull), 1941i:432 (*Mesogramma*). Type-locality: Mexico, Oaxaca, Tuxtepec. Distr. — same. Type ♂ USNM\*. Ref. — Hull, 1943i:29, fig. 6 (abdomen). N. COMB.
- NASUTUS Sack, 1941:102 (1951:98), fig. 4 (head), 5 (abdomen). Type-locality: Peru, Paso de Lares. Distr. — Ecuador, Peru, Bolivia. Types ♀ MD? Ref. — Hull, 1943i:40, fig. 81 (abdomen).
- sylphus* Hull, 1943f:35 (*Mesogramma*). Type-locality: Ecuador, Baños. Type ♂ AMNH\*. N. SYN.
- NIGRIPUNCTUS (Enderlein), 1938:231 (*Mesogramma*). Type-locality: Colombia, Cordillera. Distr. — same. Type ♂ ZMB. N. COMB.



- NITIDIVENTRIS (Curran), 1930b:9 (*Mesogramma*). Type-locality: Brazil, [?Espírito Santo], Vitória, Distr. — Colombia, Venezuela, Ecuador, Brazil. Type ♂ AMNH\*. N. COMB.
- NITIDUS (Schiner), 1868:349 (*Mesogramma*). Type-locality: "South America". Distr. — Panama. Types ♂ VMNH\*.
- NORMA (Curran), 1930b:10 (*Mesogramma*). Type-locality, Panama, Canal Zone, Corozal, Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1943i:29, fig. 7 (abdomen). N. COMB.
- NYMPHALIUS (Hull), 1942a:106 (*Mesogramma*). Type-locality: Ecuador, Oriente, Río Margajitas, 1250 m. Distr. — Ecuador, Surinam. Type ♂ AMNH\*. Ref. — Hull, 1943i:37, fig. 51 (abdomen). N. COMB.
- OCHRACEUS (Hull), 1942f:19 (*Mesogramma*). Type-locality: Colombia, Bogotá, Distr. — same. Type ♀ MCZ\*. N. COMB.
- OCTOGUTTATUS (Jaennicke), 1867:398 (*Syrphus*). Type-locality: "Chile". Distr. — Peru, Chile (Coquimbo-Chiloé), Argentina. Type ♂ SMF\*. Ref. — Shannon & Aubertin, 1933:138, fig. 26b (abdomen); Hull, 1943i:37, fig. 57 (abdomen). N. COMB.
- interruptus* Philippi, 1865:747 (*Syrphus*; preocc. Gmelin, 1792). Type-locality: Chile, Valdivia, Illapel. Types ♂ ♀ MNHS.
- philippii* Shannon, 1927a:24 (*Mesogramma*; nom. nov. for *interruptus* Philippi).
- OPHIOLINEA (Hull), 1943j:68, fig. 59 (abdomen) (*Baccha*). Type-locality: Colombia, Villavicencio, Distr. — same. Type ♀ Hull\*. Ref. — Hull, 1949e: 202, fig. 59 (abdomen). N. COMB.
- ORNATUS Sack, 1941:103 (1951:99), fig. 6 (abdomen). Type-locality: Peru; Bolivia; Brazil, Espírito Santo. Distr. — same. Types ♂ ♀ MD ? and UNMB.
- ORNITHOGLYPHUS (Hull), 1942f:17 (*Mesogramma*). Type-locality: Dominican Republic, Mount Diego de Ocampo, 3,000-4,000 ft. Distr. — Cuba, Dominican Republic. Type ♂ MCZ\*. Ref. — Hull, 1943i:39, fig. 69 (abdomen). N. COMB.
- OVATUS (Hull), 1942f:19 (*Mesogramma*). Type-locality: Panama, Yape, Tuirar, Distr. — same. Type ♂ MCZ\*. Ref. — Hull 1943i:29, fig. 5 (abdomen). N. COMB.
- PANAMENSIS (Curran), 1930b:12 (*Mesogramma*). Type-locality: Panama, Panama City, Distr. — same. Type ♂ AMNH\*. N. COMB.
- PARAGRAMMUS (Schiner), 1868:349 (*Mesogramma*). Type-locality: "South America". Distr. — same. Types ♂ ♀ VMNH\*.
- PICTUS (Macquart), 1842:159 (99) pl. 16 fig. 11 (habitus) (*Syrphus*). Type-locality: "Guyane". Distr. — Greater Antilles, Lesser Antilles, Mexico south to Argentina. Type ♀ MNHN\*. Ref. — Hull, 1943i:30, fig. 13 (abdomen).
- poecilogastrus* Loew, 1865:158 (1872b:33) (*Mesogramma*). Type-locality: "Cuba". Type ♀ MCZ\*.
- cuprinus* Bigot, 1884b:114 (*Mesograptus?*). Type-locality: "Cuba". Type ♂ OXF\*. N. SYN.
- var. *MELLEOGUTTATUS* (Hull), 1941f:45 (*Mesogramma*). Type-locality: Panama, Canal Zone, Barro Colorado Island, Distr. — same. Type ♂ Hull. Ref. — Hull, 1943i:31, fig. 15 (abdomen). N. COMB.
- POLITUS (Say), 1823:88 (*Scaeva*). Type-locality: "United States". Distr. — Canada, U.S.A.; Mexico south to Peru and Brazil. Type ? (lost). Ref. — Hull, 1943i:29, fig. 3 (abdomen).



- anchoratus* Macquart, 1842:97 (132), pl. 16:8 (abdomen) (*Syrphus*).  
Type-locality: "Brazil". Types ♀ ♂ MNHN\*. N. SYN.
- POLYGRAPHICUS (Hull), 1940a:249 (*Mesogramma*). Type-locality: Brazil, São Paulo, Batéia. Distr. — Peru and Brazil. Type ♀ Hull, 1943i:31, fig. 22 (abdomen). N. COMB.
- PORTICOLA (Thomson), 1869:495 (*Syrphus*). Type-locality: Peru, Callao; Ecuador, Puna. Distr. — same. Type ♂ NRS\*. N. COMB.
- PORTIUS (Walker), 1852:239 (*Syrphus*). Type-locality: "Brazil". Distr. — Brazil (São Paulo). Type ♂ BMNH\*. Ref. — Hull, 1943i:31, fig. 17 (abdomen). N. COMB.
- PRODUCTUS (Curran), 1930b:5 (*Mesogramma*). Type-locality: Ecuador. Distr. — Ecuador south to Argentina. Type ♂ AMNH\*. Ref. — Hull, 1943i:32, fig. 30 (abdomen). N. COMB.
- PUELLUS (Hull), 1942f:22 (*Mesogramma*). Type-locality: Cuba, Santa Clara Province, Soledad. Distr. — same. Type ♂ MCZ\*. Ref. — Hull, 1943i:39, fig. 64 (abdomen). N. COMB.
- PULCHELLUS (Macquart), 1846:266 (138), pl. 11, fig. 12 (abdomen) (*Syrphus*). Type-locality: Guadeloupe, San Domingo. Distr. — Guadeloupe, Cuba. Types ♀ OXF\*. Ref. — Hull, 1943i:34, fig. 46 (abdomen).
- PUNCTATUS Sack, 1921:128, fig. 1a (abdomen). Type-locality: Paraguay, St. Trinidad. Distr. — same. Types ♂ ♀ MD?
- PURUS (Curran), 1930b:10 (*Mesogramma*). Type-locality: Panama, Corozal. Distr. — same. Type ♂ AMNH. Ref. — Hull, 1943i:39, fig. 63 (abdomen). N. COMB.
- QUADRILINEATUS (Enderlein), 1938:233 (*Hybobathus*). Type-locality: Colombia, "Cordillera, tierra templada". Distr. — same. Types ♀ ZMB. N. COMB.
- QUINQUECINCTUS (Bigot), 1888a:254 (*Mesograptus*). Type-locality: Mexico. Distr. — same. Type ♀ OXF\*.
- QUINQUEMACULATUS (Bigot), 1888a:254 (*Mesograptus*). Type-locality: "Mexico". Distr. — same. Types ♂ ♀ OXF\*.
- RHEA (Hull), 1949i:228 (*Mesogramma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Types ♂ AMNH\*, MZUSP. N. COMB.
- RHODOPE (Hull), 1951a:13 (*Mesogramma*). Type-locality: Jamaica, Dunrobin District, Mandeville, Manchester. Distr. — same. Type ♀ AMNH\*. N. COMB.
- ROMBICUS (Giglio-Tos), 1892d:3 (*Mesogramma*). Type-locality: Mexico, Orizaba. Distr. — same. Types ♂ ♀ UTOR\*. Ref. — Giglio-Tos, 1893:pl. 2, fig. 15 (abdomen); Hull, 1943i:40, fig. 78 (abdomen).  
*rhombicus*, various authors, emend.
- RUFICAUDATUS (Bigot), 1884a:541 (*Paragus*). Type-locality: "Brazil". Distr. — same. Type ♂ BM(NH)\*. N. COMB.
- RUFOCINCTUS (Curran), 1927b:7 (*Mesogramma*). Type-locality: Puerto Rico, Mayaguez. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1943i:41, fig. 83 (abdomen). N. COMB.
- SAPHIRIDICEPS (Bigot), 1884b:105 (*Mesograptus?*). Type-locality: "Mexico". Distr. — Mexico, Colombia, Ecuador, Peru. Types ♀ OXF\*.
- SELVA (Hull), 1943i:13 (*Mesogramma*). Type-locality: ? Distr. — ? Type ?? N. COMB.



- SERPENTINUS (Hull), 1950c:228 (*Calostigma*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull\*. N. COMB.
- SINUATINERVIS (Macquart), 1850:455 (151), tab. 14, fig. 10 (wing) (*Syrphus*). Type-locality: Brazil, "Minas Gerais". Distr. — same. Type ♀ MNHN. N. COMB.
- SLOSSONAE (Curran), 1930b:8 (*Mesogramma*). Type-locality: U.S.A., Florida, Biscayne Bay. Distr. — U.S.A. (Florida), Ecuador. Type ♂ AMNH\*. N. COMB.
- STEATOGASTER (Hull), 1941c:62 (*Mesogramma*). Type-locality: Brazil, Amazonas, Rio Branco. Distr. — Ecuador, Brazil. Type ♀ Hull. Ref. — Hull, 1943i:29, fig. 1 (abdomen). N. COMB.
- STEATORNIS (Hull), 1943i:20 (*Mesogramma*). Type-locality: Ecuador, Santiago-Zamora, Sucua, Río Blanco and Río Upano, 950 m. Distr. — same. Type ♂ AMNH\*. N. COMB.
- SUBANNULATUS (Loew), 1865:157 (1872b:31) (*Mesograptus*). Type-locality: "Cuba". Distr. — Cuba, Dominican Republic, Jamaica, Puerto Rico, Costa Rica south to Brazil. Types ♀ ♂ MCZ\*. Ref. — Hull, 1943i:33, figs. 34, 35 (abdomen).
- SYLVATICUS (Hull), 1943f:34 (*Mesogramma*). Type-locality: Ecuador, Baños. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1943i:41, fig. 81 (abdomen). N. COMB.
- TAENIUS (Curran), 1930b:7, fig. 3 (ventral view of male genitalia) (*Mesogramma*). Type-locality: Panama, Canal Zone, Corozal. Distr. — Panama, Surinam, Argentina. Type ♂ AMNH\*. Ref. — Hull, 1943i:29, fig. 4 (abdomen). N. COMB.
- TIBICEN (Wiedemann), 1830:127 (*Syrphus*). Type-locality: "Brazil". Distr. — Panama (Canal Zone) south to Brazil and Argentina. Types ♀ ZMB-VM(NH)\*. Ref. — Hull, 1943i:35, fig. 43 (abdomen).
- TRIANGULATUS (Hull), 1942a:104 (*Mesogramma*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1943i:37, fig. 55 (abdomen). N. COMB.
- TRIDENTATUS (Rondani), 1868:24 (*Syrphus*). Type-locality: "Patagonia". Distr. — Mexico, "Patagonia". Type ♂ ? Ref. — Giglio-Tos, 1893: pl. 2, fig. 17 (abdomen). N. COMB.
- pallipes* Bigot, 1884b:106 (*Mesograptus*?). Type-locality: "Mexico". Type ♀ OXF\*.
- TRILINEATUS (Enderlein), 1938:232 (*Mesogramma*). Type-locality: "St. Jean". Distr. — same. Type ♀ ZMB. N. COMB.
- TRILOBATUS (Bigot), 1884b:109 (*Mesograptus*?). Type-locality: "Mexico". Distr. — same. Types ♂ OXF\*.
- TRIRADIATUS (Hull), 1942d:48 (*Mesogramma*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ Hull. Ref. — Hull, 1943i:33, fig. 27 (abdomen). N. COMB.
- TUBULARIUS (Hull), 1942a:103 (*Mesogramma*). Type-locality: Ecuador, Baños. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1943i:35, fig. 48 (abdomen). N. COMB.
- ULTIMUS (Hull), 1951a:7 (*Mesogramma*). Type-locality: Ecuador, Pichincha, Uyumbicho. Distr. — same. Type ♀ AMNH\*. N. COMB.
- UNA (Hull), 1943i:23, fig. 84 (abdomen) (*Mesogramma*). Type-locality: "Haiti". Distr. — same. Type ♀ MCZ\*. N. COMB.
- UNDECIMPUNCTATUS (Enderlein), 1938:228 (*Mitrosphen*). Type-locality: Uruguay, Montevideo; Paraguay, San Bernardino. Distr. — same. Types ♂ ♀ ZMB. N. COMB.



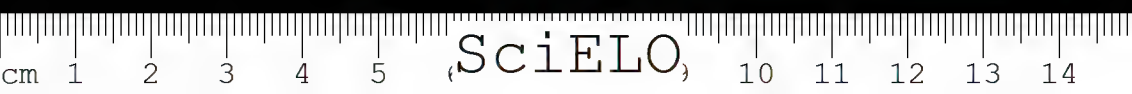
- URANIUS (Hull), 1951a:1 (*Mesogramma*). Type-locality: Peru, middle Río Ucayali. Distr. — same. Type ♂ AMNH\*. N. COMB.
- VALDESI (Fluke), 1950b:488, fig. 12 (abdomen), fig. 13 (metathoracic leg) (*Mesogramma*). Type-locality: Cuba, Pico Joaquín to Turquino. Distr. — same. Type ♂ AMNH\*. N. COMB.
- VANESSA (Hull), 1951a:15 (*Mesogramma*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. N. COMB.
- VATIUS (Walker), 1852:240 (*Syrphus*). Type-locality: Brazil. Distr. — same. Type ♂ BM(NH)\*. Ref. — Hull, 1943i:29, fig. 8 (abdomen). N. COMB.
- VERTICALIS (Curran), 1927b:6 (*Mesogramma*). Type-locality: Puerto Rico, Gayay. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1943i:41, fig. 76 (abdomen). N. COMB.
- verticalis*, Hull 1943i, misspelled.
- VEVE (Hull), 1942f:23 (*Mesogramma*). Type-locality: Haiti, La Visite and Vic., La Salle Range 5,000-6,000 ft. Distr. — same. Type ♂ MCZ\*. N. COMB.
- VICINUS (Macquart), 1846:264 (136) (*Syrphus*). Type-locality: "Brazil". Distr. — same. Type ♀ OXF. N. COMB.
- VIERECKI (Curran), 1930b:13 (*Mesogramma*). Type-locality: Colombia, Sero Quenado. Distr. — same. Type ♀ AMNH\*. Ref. — Hull, 1943i:37, fig. 58 (abdomen). N. COMB.
- VIOLACEUS (Curran), 1926c:103 (*Mesogramma*). Type-locality: Jamaica, Chinchona. Distr. — Jamaica, Puerto Rico, Dominican Republic. Type ♂ BM(NH). Ref. — Curran, 1928:39, fig. 5 (head): 40, fig. 6 (abdomen). N. COMB.
- VIRGULATUS (Macquart), 1850:456 (152), pl. 14, fig. 11 (abdomen) (*Syrphus*). Type-locality: "Patrie inconnue, probablement le Brésil". Distr. — same. Type ♂ OXF\*. N. COMB.
- VITRECENS (Hull), 1930:142 (*Mesogramma*). Type-locality: Colombia, Aracataca, Magdalena. Distr. — same. Type ♂ ANSP. N. COMB.
- VITREUS (Hull), 1941f:45 (*Mesogramma*). Type-locality: Brazil, São Paulo, Juquiá. Distr. — same. Type ♂ Hull. N. COMB.
- VULTURUS (Hull), 1942f:20 (*Mesogramma*). Type-locality: Honduras, Lancetilla, near Tela. Distr. — same. Type ♀ MCZ\*. Ref. — Hull, 1943i:39, fig. 70 (abdomen). N. COMB.
- WATSONI (Curran), 1930b:5, fig. 1 (ventral view of male genitalia) (*Mesogramma*). Type-locality: Haiti, Aux Cayes. Distr. — Haiti, Cuba, Jamaica, Venezuela, Colombia, Ecuador, Peru, Brazil. Type ♂ AMNH\*. Ref. — Hull, 1943i:33, fig. 32 (abdomen). N. COMB.
- WILLISTONII (Lynch Arribáizaga), 1892a:54 (1892c:64) (*Mesogramma*). Type-locality: Argentina, Misiones. Distr. — same. Type ? MACN.

#### Subfamily MICRODONTINAE

Ref. — Thompson, 1969 (key to general).

#### Genus PARAGON THOMPSON

PARAGON Thompson, 1969:74. Type-species, *paragoides* Thompson (orig. des.). Ref. — Thompson, 1969 (key).



- MINUTULUS (Doesburg), 1966:89, figs. 63 & 64 (habitus) (*Ceratophya*).  
Type-locality: Surinam, Zanderij-savannah. Distr. — same. Type ♂ Doesburg.
- PARAGOIDES Thompson, 1969:81, figs. 1, 1a (head); 7, 7a (male genitalia); 9 (abdomen); 12 (wing). Type-locality: Mexico, Sinaloa, Mazatlán, at sea level. Distr. — same. Type ♂ CNC\*.

#### Genus PARAMICRODON Meijere

- PARAMICRODON Meijere, 1913:360. Type-species, *lorentzi* Meijere (mon.).  
*Spheginobaccha*, subg. *Nannomyrmecomylia* Hull, 1945b:75. Type-species, *Paramicrodon delicatulus* Hull (orig. des.). N. SYN.
- DELICATULUS Hull, 1937b:24. Type-locality: Cuba, Soledad (Cienfuegos). Distr. — same. Type ♂ MCZ\*. Ref. — Thompson, 1969:77, fig. 2 (head).
- FLUKEI (Curran), 1936b:2 (*Microdon*). Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Peru, Brazil (Rio de Janeiro, Santa Catarina). Type ♂ AMNH\*. N. COMB.

#### Genus ARGENTINOMYIA Lynch Arribálzaga

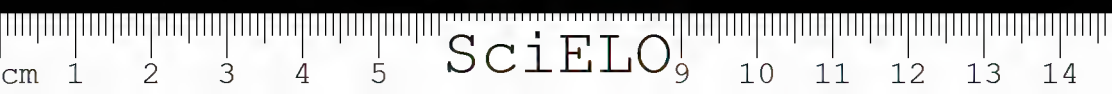
- ARGENTINOMYIA Lynch Arribálzaga, 1891:199 (1892c:30). Type-species, *testaceipes* Lynch Arribálzaga (mon.).
- Aristosyrphus* Curran, 1941:252. Type-species, *primus* Curran (orig. des.). N. SYN.
- Ceratophya*, subg. *Protoceratophya* Hull, 1949d:314. Type-species, *carpenteri* Hull (orig. des.). N. SYN.
- Paraceratophya*, Fluke, 1957:38, misspelling of *Protoceratophya*.

#### Subgenus ARGENTINOMYIA Lynch Arribálzaga

- BORACEIENSIS (Papavero), 1962:319 (*Ceratophya*). Type-locality: Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. — same. Type ♀ MZUSP\*. N. COMB.
- CARPENTERI (Hull), 1945b:76 (*Ceratophya*). Type-locality: Panama, Coclé Province, El Valle. Distr. — same. Type ♀ MCZ\*. N. COMB.
- ELONGATA (Hull), 1943e:706 (*Microdon*). Type-locality: Brazil, Pará, Santarém. Distr. — same. Type ♂ BM(NH). N. COMB.
- GRANDIS Lynch Arribálzaga, 1892b:255 (1892c:156). Type-locality: Argentina, Misiones, Fracrao. Distr. — same. Type ? MACN.
- MACROPTERA (Curran), 1941:254 (*Ceratophya*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♀ AMNH\*. N. COMB.
- PRIMA (Curran), 1941:252 (*Aristosyrphus*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*. Ref. — Thompson, 1969:82, fig. 11 (wing). N. COMB.
- TESTACEIPES Lynch Arribálzaga, 1891:199 (1892c:41), fig. 4 (habitus). Type-locality: Argentina, Prov. Buenos Aires, Chacabuco. Distr. — same. Type ? MACN.

#### Subgenus EURYPTEROSYRPHUS Barretto & Lane

- EURYPTEROSYRPHUS Barretto & Lane, 1947:141 (as genus). Type-species, *melanopterus* Barretto & Lane (orig. des.).



MELANOPTERA (Barretto & Lane), 1947:142, fig. 1 (wing) (*Eurypterosyrphus*). Type-locality: Brazil, São Paulo, São Paulo, Via Anhangüera. Distr. — same. Type ♀ MZUSP\*. N. COMB.

#### Genus MIXOGASTER Macquart

- MIXOGASTER Macquart, 1842:74 (14). Type-species, *conopsoides* Macquart (orig. des.).
- Myxogaster*, Kertész, 1910:351, misspelling.  
Ref. — Hull, 1954 (rev.), Carrera & Lane, 1958 (key).
- ANTHERMUS (Walker), 1849:547 (*Ascia*). Type-locality: Brazil, Pará. Distr. — Brazil. Types ♀ BM(NH). Ref. — Hull, 1954:21 (notes).
- CICATRIX Hull, 1954:9 figs. 14 (head), 26 (abdomen). Type-locality: Brazil, Mato Grosso, Corumbá. Distr. — same. Type ♂ CU\*.
- CONOPSOIDES Macquart, 1842:74 (14), tab. 3, fig. 1 (habitus), 1a (head). Type-locality: Brazil, Rio de Janeiro. Distr. — Colombia, Brazil. Type ♀ MNHN\*. Ref. — Hull, 1954:19 (translation of original description).
- conopseus*, Williston, 1886:309, 310; misspelling.  
*conopoides*, Kertész, 1910:351, emendation.
- CUBENSIS Curran, 1932a:1. Type-locality: Cuba, Sierra Maestra. Distr. — Cuba. Type ♂ AMNH\*. Ref. — Hull, 1954:14 (redescription), fig. 8 (antenna); 27 (abdomen); Thompson, 1969:76, fig. 4 (metasterna).
- CURRANI Hull, 1954:5, figs. 9 (antenna), 16 (head), 31 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- DIMIDIATA Giglio-Tos, 1892c:1. Type-locality: Mexico, Tuxpango. Distr. — same. Type ♀ UTOR. Ref. — Hull, 1954:19 (transl. of orig. description).
- dimitiata*, Fluke, 1957:37, misspelling.
- FLUKEI Hull, 1954:15, figs. 2 & 17 (head), 22 (wing), 28 (abdomen). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ AMNH.
- LANEI Carrera & Lenko, 1958:473, figs. 4 (egg), 5-7 (larva), 8-9 (puparium), 10-11 (head), 12 (antenna), 13 (wing). Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil (São Paulo). Type ♂ MZUSP\*.
- LOPESI Carrera & Lenko, 1958:477, figs. 14-15 (head), 17 (wing). Type-locality: Brazil, Pará, Belém, Aurá. Distr. — same. Type ♂ IOC.
- MEXICANA Macquart, 1846:251 (123), pl. 10, fig. 15 (head), 15a (wing). Type-locality: Mexico. Distr. — same. Type ♀ MRHNB. Ref. — Hull, 1954:20 (translation of orig. description).
- ORPHEUS Hull, 1944c:36. Type-locality: Guyana, Bartica. Distr. — same. Type ♀ MCZ\*. Ref. — Hull, 1954:21 (redescription), fig. 19 (wing).
- PITHECOFASCIA Hull, 1944k:512. Type-locality: Colombia, Restrepo, 500 m. Distr. — same. Type ♂ Hull. Ref. — Hull, 1954:23 (redescription), figs. 3 & 15 (head), 32 (abdomen).
- POLISTES Hull, 1954:4, figs. 5 & 12 (head), 8 (antenna), 21 (wing). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — same. Type ♀ AMNH\*.

- RARIOR Shannon, 1925a:111. Type-locality: Panama, Taboga Island. Distr. — Panama. Type ♂ USNM\*. Ref. — Hull, 1954:11 (redescription), figs. 20 (wing), 25 (abdomen).  
 var. RARISSIMA Shannon, 1925a:111. Type-locality: Guatemala, Cacao Trece Aguas, Alta Vera Paz. Type ♂ USNM\*.  
 SARTOCRYPTA Hull, 1954:8, figs. 1 & 11 (head), 6 (antenna), 29 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil. Type ♀ AMNH\*.  
 STRICTOR Hull, 1941a:1. Type-locality: Bolivia, Santa Cruz, Piedra Blanca (as "Brazil", Piedra"). Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1954:17 (redescription), fig. 18 (head).  
 THECLA Hull, 1954:6, figs. 13 (head), 23 (wing), 30 (abdomen). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Ecuador, Peru, Brazil. Type ♀ AMNH\*.

#### Genus MICRODON Meigen

- MICRODON Meigen, 1803:275. Type-species, *Musca mutabilis* Linnaeus (mon.).  
*Chymophila* Macquart, 1834:485. Type-species, *splendens* Macquart (mon.) = *fulgens* Wiedemann.  
*Chimophila*, Osten-Sacken, 1875:46, 1878:119, misspelling.  
*Omegasyrphus* Giglio-Tos, 1891:4. Type-species, *Microdon coarctatus* Loew (sub. mon., Giglio-Tos, 1892b:3).  
*Microdon*, subg. *Eumicrodon* Curran, 1925a:50. Type-species, *fulgens* Wiedemann (orig. des.).  
*Pseudomicrodon* Hull, 1937b:24. Type-species, *Microdon beebei* Curran (orig. des.). N. SYN.  
*Chrysidimyia* Hull, 1937c:116 (as *Chysidimyia*). Type-species, *chrysidimima* Hull (orig. des.). [Even though Hull spelled his generic name as *Chysidimyia* in the original description (3 times!) we consider this as a *lapsus calami*. Hull did refer to the "astonishing resemblance" of his group to chrysidid wasps and thereby indicated the intended derivation of his name. All subsequent spellings of this name (Hull, 1938:126, 1944e:241, 1949d:309) are as *Chrysidimyia*, which we here accept as a justified emendation].  
*Syrphipogon* Hull, 1937c:120. Type-species, *fucattissimus* Hull (orig. des.). Ref. — Curran, 1941 (keys).

#### Subgenus CERATOPHYA Wiedemann

- CERATOPHYA Wiedemann, 1824:14 (as genus). Type-species, *notata* Wiedemann (Coquillett, 1910a:520).  
*Cerathophya*, Wiedemann, 1830:79, misspelling.  
 CARINIFACIES Curran, 1934b:376. Type-locality: Guyana, Kartabo. Distr. — same. Type ♀ AMNH\*.  
 LONGICORNIS (Wiedemann), 1824:14 (*Cerathophya*). Type-locality: "Brazil". Distr. — same. Type ♀ VMNH. N. COMB.  
 NOTATUS (Wiedemann), 1824:14, fig. 9 (habitus, antenna, scutellum) (*Cerathophya*). Type-locality: "Brazil". Distr. — same. Type ♂ VMNH\*.  
 PANAMENSIS Curran, 1930f:6. Type-locality: Panama, Canal Zone, France Field. Distr. — same. Type ♂ AMNH\*.





Subgenus RHOPALOSYRPHUS Giglio-Tos

- RHOPALOSYRPHUS Giglio-Tos, 1891:3 (as genus). Type-species, *Holmbergia guentherii* Lynch Arribálzaga (sub. mon., Giglio-Tos, 1892b:1).
- Holmbergia* Lynch Arribálzaga, 1891:195 (1892c:37). Type-species, *guentherii* Lynch Arribálzaga (mon.). Ref. — Capelle, 1956 (key).
- CAROLAE (Capelle), 1956:174, figs. 3 (head), 4 (wing), 5 (scutellum) (*Rhopalosyrphus*). Type-locality: U.S.A., Arizona, Huachuca Mountains, Sunnyside Canyon. Distr. — U.S.A. (Arizona), Mexico. Type ♀ UK\*. N. COMB.
- GUENTHERII (Lynch Arribálzaga), 1891:197 (1892c:39), fig. 3 (habitus) (*Holmbergia*). Type-locality: Argentina, Buenos Aires. Distr. — Argentina, Surinam, Mexico. Type ? MACN. Ref. — Hull, 1949d:315, figs. 14f (habitus), 14g (hind leg), 14h (head), 14i (abdomen); Doesburg, 1966:88, fig. 61 [not 62] (habitus); Thompson, 1969:76, fig. 6 (metasterna). N. COMB.

Subgenus CERIOMICRODON Hull

- CERIOMICRODON Hull, 1937b:25 (as genus). Type-species, *petiolatus* Hull (orig. des.).
- Cerioimicrodon*, Hull, 1937b:25, incorrect original spelling.
- PETIOLATUS (Hull), 1937b:25 (*Cerioimicrodon*). Type-locality: Brazil, west border of Mato Grosso. Distr. — Peru, Brazil (Mato Grosso). Type ♂ USNM\*. Ref. — Hull, 1949d:313, fig. 13e (habitus). N. COMB.

Subgenus RHOGA Walker

- RHOGA Walker, 1857:157. Type-locality, *lutescens* Walker (mon.).
- Papiliomyia* Hull, 1937b:27. Type-species, *sepulchrasilva* Hull (orig. des.).
- LUTESCENS (Walker), 1857:157 (*Rhoga*). Type-locality: Brazil, Pará. Distr. — same. Type ♀ BM(NH). N. COMB.
- MACULATUS Shannon, 1927a:21. Type-locality: Bolivia, Prov. Sara, Santa Cruz de la Sierra. Distr. — same. Type ♀ BM(NH).
- MELLEUS Curran, 1940:5. Type-locality: Guyana, Kaletour, Tukheit Trail. Distr. — Costa Rica, Panama, Guyana. Type ♂ BM(NH).
- SEPULCHRASILVUS (Hull), 1937b:28 (*Papiliomyia*). Type-locality: Brazil, Rio Grande do Sul. Type ♂ VMNH\*. Ref. — Hull, 1949d:315, fig. 14d (habitus). N. COMB.
- XANTHOPROSOPUS (Barretto & Lane), 1947:145 (*Rhoga*). Type-locality: Brazil, Minas Gerais, Arceburgo, Faz. Fortaleza. Distr. — same. Type ♂ MZUSP\*. N. COMB.

Subgenus MASARYGUS Brèthes

- MASARYGUS Brèthes, 1908:441 (as genus). Type-species, *planifrons* Brèthes (orig. des.).
- Schizoceratomyia* Carrera, Lopes & Lane, 1947a:245. Type-species, *barrettoii* Carrera, Lopes & Lane (orig. des.).

- Johnsoniodon* Curran, 1947a:1. Type-species, *malleri* Curran (orig. des.). Ref. — Papavero, 1962 (key).
- BARRETOI (Carrera, Lopes & Lane), 1947a:245; 1947b:473, figs. 1 (habitus); 2-3 (head); 4-5, 13 (antenna); 6 (wing); 7-11 (male genitalia) (*Schizoceratomyia*). Type-locality: Brazil, Goiás, Corumbá, Fazenda Monjolino. Distr. — Surinam, Brazil (Goiás, Rio de Janeiro. Type ♂ MZUSP\*. N. COMB.
- CARRERA (Papavero), 1962:324, fig. 4 (antenna) (*Masarygus*). Type-locality: Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. — same. Type ♂ MZUSP\*. N. COMB.
- FLAVIPES (Carrera, Lopes & Lane), 1947a:247; 1947b:476, figs. 14 (head), 15-16 (antenna), 17-19 (male genitalia) (*Schizoceratomyia*). Type-locality: Brazil, São Paulo, Alto da Serra, Parque Cajuru. Distr. — same. Type ♂ MZUSP\*. Ref. — Doesburg, 1966:92, fig. 65 (habitus). N. COMB.
- MALLERI (Curran), 1947a:1, fig. 1 (habitus) (*Johnsoniodon*). Type-locality: Brazil, Santa Catarina, Corupá (Hansa Humboldt). Distr. — same. Type ♀ AMNH\*. N. COMB.
- PLANIFRONS (Brèthes), 1908:442, figs. a-c (habitus), d+e (head), f+g (antenna) (*Masarygus*). Type-locality: Argentina, Buenos Aires, General Urquiza. Types ♂ ♀ MACN & MCSNM\*.

#### Subgenus UBRISTES Walker

- UBRISTES Walker, 1852:217 (as genus). Type-species, *flavitibia* Walker (mon.).
- Hypselosyrphus* Hull, 1937b:21. Type-species, *trigonus* Hull (orig. des.).
- Ubristes*, subg. *Stipomorpha* Hull, 1945b:74. Type-species, *Microdon fraudator* Shannon (orig. des.).
- Carreramyia* Doesburg, 1966:93. Type-species, *Microdon megacephalus* Shannon (orig. des.). N. SYN.
- ANAX Thompson (nom. nov. for *analís* Curran). Distr. — Brazil (Santa Catarina). NOM. NOV.
- analís* Curran, 1940:3 (preocc. Macquart, 1842). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*.
- ANGULATUS Hull, 1943e:715. Type-locality: Brazil, "Amazon, Ega" (= Tefé). Distr. — same. Type ♂ BM(NH).
- APICULUS Curran, 1930f:5. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ AMNH\*.
- CHRYSOPIGUS (Giglio-Tos), 1892c:1 (*Ubristes*). Type-locality: Mexico, Orizaba. Distr. — same. Type ♀ UTOR. N. COMB.
- CORBICULIPES (Papavero), 1962:320, figs. 2,3 (hind tibia + tarsus) (*Hypselosyrphus*). Type-locality: Brazil, Guanabara, Sumaré. Distr. — same. Type ♀ MZUSP\*. N. COMB.
- FLAVITIBIA (Walker) 1852:217, pl. 5:2 (habitus), 2a (head), 2b (tarsus) (*Ubristes*). Type-locality: "Brasil". Distr. — Guyana, Brazil. Type ♂ BM(NH). Ref. — Hull, 1949d:313, figs. 13f (hind leg), 13h (abdomen).
- plaumanni* Curran, 1940:3. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♀ AMNH\*. N. SYN.
- FRAUDATOR Shannon, 1927a:20. Type-locality: "Amazon". Distr. — same. Type ♂ BM(NH). Ref. — Hull, 1949d:313, fig. 13g (abdomen).
- GOETTEI Shannon, 1927a:19. Type-locality: "Amazon". Distr. — same. Type ♀ BM(NH).

- GUIANICUS Curran, 1925c:340. Type-locality: Guyana, Bartica. Distr. — Panama, Ecuador, Surinam, Guyana. Type ♀ MCZ\*. Ref. — Thompson, 1969:76, fig. 3 (head).
- INARMATUS Curran, 1925d:5. Type-locality: Guyana, Bartica. Distr. — Guyana. Type ♂ MCZ\*.
- LACTEIPENNIS Shannon, 1927a:18. Type-locality: "Amazon". Distr. — same. Type ♂ BM(NH).
- LANEI Curran, 1936b:5. Type-locality: Brazil, São Paulo, Juquiá. Distr. — Trinidad, Brazil (São Paulo). Type ♀ AMNH\*.
- MACKIEI Curran, 1940:5. Type-locality: Guyana, Rockstone. Distr. — same. Type ♀ AMNH\*.
- MEGACEPHALUS Shannon, 1925b:213. Type-locality: Panama, "Old Panama". Distr. — same. Type ♂ USNM\*. Ref. — Hull, 1949d:313, figs. 13a (habitus), 13b (hind leg), 13c (head).
- MICROMIDAS Shannon, 1925a:112. Type-locality: Panama, Taboga Island. Distr. — same. Type ♀ USNM\*.
- MIXTUS Curran, 1940:6. Type-locality: Guyana, Cuyuni River, Kamaria Landing. Distr. — same. Type ♀ BM(NH).
- PROCEDENS Curran, 1941:251. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- PROCTERI Curran, 1941:251. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- PUERILIS (Doesburg), 1966:86 (*Ubristes*). Type-locality: Surinam, Zanderij. Distr. — same. Type ♀ Doesburg. N. COMB.
- SCOLOPUS Shannon, 1927a:20. Type-locality: "Amazon". Distr. — same. Type ♂ BM(NH).
- SCUTELLARIS Shannon, 1927a:20. Type-locality: "Amazon". Distr. — same. Type ♀ BM(NH). Ref. — Hull, 1949d:313, figs. 13d (head), 13i (scutellum), 13j (head), 13k (hind leg).
- SIMILLIMUS Hull, 1950:611. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — same. Type ♂ BM (NH).
- TENUICAUDUS Curran, 1925c:339. Type-locality: Peru, El Campamiento. Distr. — Peru, Brazil. Type ♀ CU\*. Ref. — Curran, 1934b:526, figs. 26 (abdomen), 27 (head).
- TRIANGULARIS Curran, 1940:6. Type-locality: Brazil, Mato Grosso, Dourados. Distr. — Brazil (São Paulo, Mato Grosso). Type ♂ AMNH\*.
- litoralis* Papavero, 1964:21, figs. 1,2 (abdomen) (*Ubristes*). Type-locality: Brazil, São Paulo, Caraguatatuba, 40 m. Type ♂ MZUSP\*. N. SYN.
- TRIGONIFORMIS Shannon, 1927a:19. Type-locality: Brazil, ?Vila Nova. Distr. — same. Type ♂ BM(NH).
- TRIGONUS (Hull), 1937b:21, fig. 9 (head), 9a (scutellum) (*Hypselosyrphus*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ MCZ\*. N. COMB.
- ULOPODUS (Hull), 1944j:34 (*Ubristes*). Type-locality: Peru, Putumayo Dist., Lachoruria. Distr. — same. Type ♀ CU\*. N. COMB.
- WHEELERI Mann, 1928:168. Type-locality: Panama, Canal Zone, Red Tank. Distr. — same. Type ♂ USNM\*.

#### Subgenus MICRODON Meigen

- ABNORMIS Curran, 1925c:345. Type-locality: Venezuela, Caura Valley. Distr. — same. Type ♀ MCZ\*.
- AEOLIDIFORMIS Wheeler, 1924:239, fig. 1 (larva, puparium). Type-locality: Panama, Canal Zone, Frijoles. Distr. — same. Type (larva) USNM.

- ANGUSTIVENTRIS (Macquart), 1855:105 (85) (*Aphritis*). Type-locality: "Amérique méridionale". Distr. — Guyana. Type ♂ OXF\*.
- ANGUSTUS (Macquart), 1846:250 (122) (*Aphritis*). Type-locality: "Cayenne". Distr. — Colombia, Guyana. Type ♂ MNHN?
- AQUILINUS Giglio-Tos, 1892c:2. Type-locality: Mexico, Tuxpango. Distr. — same. Type ♀ UTOR.
- ARGENTINAE Hull, 1937b:18. Type-locality: Argentina, Córdoba. Distr. — same. Type ♂ MCZ\*.
- AUREOScutus Hull, 1943e:709. Type-locality: "Amazon". Distr. — same. Type ♂ BM(NH).
- AUREUS Hull, 1944c:35. Type-locality: Ecuador, Oriente, Río Naxo, Jatun Yacu, Watershed, 700 m. Distr. — same. Type ♀ MCZ\*.
- AURICINCTUS (Sack), 1931:148, figs. 23a (head), 24 (habitus) (*Rhopalosyrphus*). Type-locality: Paraguay, St. Trinidad. Distr. — same. Type ♀ DEL. N. COMB.
- AURIFACIUS Hull, 1937a:169. Type-locality: Brazil, São Paulo, Itaquaquecetuba. Distr. — same. Type ♂ USNM\*.
- AURIFASCIA Hull, 1944e:245. Type-locality: Brazil, São Paulo, Alto da Serra (= Paranapiacaba). Distr. — same. Type ♂ BM(NH).
- AURIFEX Wiedemann, 1830:85. Type-locality: "Brazil". Distr. — Mexico (Guerrero), Brazil. Type ♀ VMNH\*. Ref. — Williston, 1891:pl. 1, fig. 2 (habitus), 2a (head).
- trochilus* Walker, 1852:216. Type-locality: "Mexico". Type ♀ BM(NH).
- AURIGASTER Hull, 1941g:160. Type-locality: Bolivia, Prov. Sara. Distr. — same. Type ♂ MCZ\*.
- AURULENTUS (Fabricius), 1805:185 (*Mulio*). Type-locality: U.S.A., "Carolina". Distr. — U.S.A. (New York to North Carolina); ?Mexico [Giglio-Tos, 1892e:35] (probably not neotropical). Type ♀ (lost?). Ref. — Curran, 1925a:80 (redescription), 196, fig. 41 (antenna).
- BALIOPTERUS Loew, 1872a:86 (1872b:262). Type-locality: U.S.A., Texas. Distr. — U.S.A. (California to Virginia, south to Florida); Mexico. Types ♂ ♀ MCZ (lost)\*. Ref. — Curran, 1925a:87 (redescription), pl. 5:47 (scutellum + antenna), 9:47 (male genitalia).
- var. BRUNNIPENNIS Hull, 1944i:400. Type-locality: Guatemala, St. Thomas. Type ♂ VMNH\*.
- BANKSI Hull, 1942a:91. Type-locality: Cuba, coast below Pico Turquino. Distr. — same. Type ♀ MCZ\*.
- BARBIELLINII Curran, 1936b:6. Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ AMNH\*.
- BARBOURI Hull, 1942a:89. Type-locality: Brazil, Paraná, Paranaguá. Distr. — same. Type ♀ MCZ\*.
- BASSLERI Curran, 1940:10. Type-locality: Peru, Río Ucayali. Distr. — same. Type ♀ AMNH\*.
- BATESI Shannon, 1927a:22. Type-locality: Brazil, Amazon. Distr. — same. Type ♀ BM(NH).
- BEEBEI Curran, 1936b:4. Type-locality: Guyana, Kartabo. Distr. — Surinam, Guyana. Type ♀ AMNH\*. Ref. — Doesburg, 1966:89, fig. 62 [not 61] (habitus).
- BELLULUS (Williston), 1891:1, pl. 1:1 (habitus), 1b (head) (*Mixogaster*). Type-locality: Mexico, Guerrero, La Venta, 300 ft. Distr. — same. Type ♂ BM(NH). N. COMB.
- BICOLOR (Walker), 1857:151 (*Ceratophya*). Type-locality: Brazil, Pará. Distr. — same. Type ♂ BM(NH)\*. N. COMB.
- BIDENS (Fabricius), 1805:185 (*Mulio*). Type-locality: "America meridionali". Distr. — Guyana, Argentina. Type ♂ MC\*.



- BILUMINIFERUS Hull, 1944i:399. Type-locality: Brazil, Espírito Santo. Distr. — same. Type ♂ VMNH\*.
- BISPINA Hull, 1943e:707. Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ BM(NH).
- BONARIENSIS Lynch Arribálzaga, 1891:194 (1892c:35), fig. 1 (wing). Type-locality: Argentina, Prov. Buenos Aires. Distr. — same. Type ? MACN.
- BRUCHI Shannon, 1927d:38. Type-locality: Argentina, Córdoba, Alta Gracia. Distr. — same. Types ♀ USNM & MACN?.
- BRUESI Hull, 1945b:77. Type-locality: Haiti, Port-au-Prince and vicinity. Distr. — same. Type ♀ MCZ\*.
- BRUTUS Hull, 1944j:37. Type-locality: Brazil, Bahia, Igrapiúna. Distr. — same. Type ♂ CU\*.
- CAESAR Curran, 1940:10. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- CERIOIDES Hull, 1943e:716. Type-locality: Paraguay, San Bernardino. Distr. — same. Type ♂ BM(NH).
- CHRYSIDIMIMUS (Hull), 1937c:116 (*Chysidimyia*). Type-locality: Brazil, Santarém. Distr. — same. Type ♂ CM. Ref. — Hull, 1933:128, fig. 7 (head).
- chrysidiformis*, Hull, 1944e:241, misspelling.
- CLARIPENNIS (Hine), 1914:334 (*Mixogaster*). Type-locality: Guatemala, Los Amates. Distr. — same. Type ♂ OhSU. N. COMB.
- COARCTATUS Loew, 1864a:74 (1864b:236). Type-locality: U.S.A., District of Columbia. Distr. — U.S.A. (Nebraska to Maryland, south to Florida); Mexico. Types ♂ ♀ MCZ (lost — FCT). Ref. — Curran, 1925a:86 (redescription), pl. 5:46 (scutellum & antenna).
- CONOPS Curran, 1940:4. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — same. Type ♂ AMNH\*.
- CORONA Curran, 1940:9. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- CRASSITARSIS (Macquart), 1848:198 (38) (*Aphritis*). Type-locality: "Rio Negro". Distr. — same. Types ♂ OXF\*.
- CURRANI Goot, 1964:214 (nom. nov. for *clavicornis* Curran). Distr. — Guyana.
- clavicornis* Curran, 1940:6 (preocc. Sack, 1926). Type-locality: Guyana, Mazaruni, High Forest. Type ♀ BM(NH).
- CYANEIVENTRIS (Macquart), 1846:249 (121), pl. 10, fig. 14 (wing) (*Aphritis*). Type-locality: "Colombia". Distr. — same. Types ♀ OXF\*.
- cyaniventris*, Williston, 1886:310, misspelling.
- CYANEUS Perty, 1930:186, pl. 37:4. Type-locality: Brazil, "Provincia Piauiensis". Distr. — same. Type(s) ? ZSM.
- DIAPHANUS Sack, 1921:146, figs. 21 (habitus), 22 (head). Type-locality: Paraguay, St. Trinidad. Distr. — Brazil, Paraguay. Type ♂ DEI.
- EMERALDA Hull, 1943e:719. Type-locality: "Guyana". Distr. — same. Type ♂ BM(NH).
- EUTRISTIS Curran, 1925a:74, pl. 4:35 (head). Type-locality: Mexico, Yucatán. Distr. — same. Type ♂ UK.
- FALCATUS Williston, 1887b:9. Type-locality: Mexico, Isthmus of Tehuantepec. Distr. — same. Types ♀ USNM.
- FENESTRATUS Hull, 1943e:712. Type-locality: "Amazon". Distr. — same. Type ♂ BM(NH).
- FLAVIPENNIS Curran, 1925c:342. Type-locality: Guyana, Bartica. Distr. — same. Type ♀ MCZ.

- FLAVOFASCIUM Curran, 1925c:346. Type-locality: Brazil, Minas Gerais, Lasserre. Distr. — same. Type ♂ CU\*.
- FLAVOLUNA Hull, 1943e:718. Type-locality: Paraguay, San Bernardino. Distr. — same. Type ♂ BM(NH).
- FLAVOMARGINATUS Curran, 1925b:245. Type-locality: Peru, Putamayo. Distr. — Brazil (Amapá), Peru. Type ♂ CU\*.
- FUCATISSIMUS (Hull), 1937c:120 (*Syrphipogon*). Type-locality: "South America". Distr. — same. Type ♂ CM. Ref. — Hull, 1938:128, fig. 6 (head).
- FULGENS Wiedemann, 1830:82. Type-locality: U.S.A., Georgia [as "New Georgia"]. Distr. — U.S.A. (New Jersey south to Florida); Guyana. Type ♀ ZMB. Ref. — Curran, 1925a:50 (redescription), pl. 3:17 (habitus).
- euglossoides* Gray, 1832:779, pl. 125:2. Type-locality: ??? Type ? OXF?
- GAIGEI Steyskal, 1953:1, figs. 1a (wing tip), b (antenna), c (scutellum), d (head). Type-locality: Panama, Chiriquí Prov., Progreso. Distr. — Panama. Type ♀ MZM.
- GEIJSKESI Doesburg, 1966:80. Type-locality: Surinam, near Paramaribo, Kwatta, parwa-wood. Distr. — Surinam. Type ♂ Doesburg.
- GRACILIS Bigot, 1883b:320. Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH)\*.
- GRANULATUS Curran, 1940:9. Type-locality: Guyana, Mazaruni. Distr. — Guyana. Type ♀ BM(NH).
- HERMETIA Curran, 1936b:3. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ AMNH\*.
- HERMETOIDES Curran, 1940:8. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — same. Type ♂ BM(NH).
- HISTRIO Wiedemann, 1830:83, pl. 9, fig. 6 (abdomen). Type-locality: Uruguay, Montevideo. Distr. — same. Type ♀ ZMB.
- HONDURANIUS Hull, 1940a:247. Type-locality: "Honduras, Salada River, 15 miles inland from Ceiba". Distr. — same. Type ♂ Hull.
- IGNOBILIS (Rondani), 1848:73 (*Aphritis*). Type-locality: "Brazil". Distr. — same. Types ♂ ♀ MIZUN.
- IHERINGI Bezzi, 1910:320. Type-locality: Brazil, State of São Paulo. Distr. — same. Type ♂ MCSNM\*.
- INAEQUALIS Loew, 1866b:40 (1872b:100). Type-locality: "Cuba". Distr. — same. Type ♂ MCZ (lost)\*.
- INSTABILIS Wiedemann, 1830:83. Type-locality: "Brazil". Distr. — Brazil, Argentina. Type ♀ ZMB.
- dives* Rondani, 1848:72 (*Aphritis*). Type-locality: "Brazil". Type ♂ UTOR.
- LAETUS Loew, 1864a:74 (1864b:236). Type-locality "Cuba". Distr. — U.S.A. (Maryland south to Texas, Florida); Antilles. Types MCZ (lost)\*.
- LANGI Curran, 1925c:341. Type-locality: Guyana, Kamakusa. Distr. — Guyana, Brazil. Type ♂ CU\*.
- LAZULI (Hull), 1944e:241 (*Chrysidomyia*). Type-locality: "Amazons, Vila Nova". Distr. — same. Type ♀ BM (NH).
- LIMBATUS Wiedemann, 1830:85. Type-locality: Brazil, Rio Grande do Sul, Caçapava do Sul. Distr. — same. Type ? ZMB.
- LURIDESCENS (Walker), 1857:151 (*Ceratophya*). Type-locality: "Valley of Amazon". Distr. — same. Type ♀ BM(NH)\*. N. COMB.
- MACQUARTII Lynch Arribálzaga, 1891:126 (1892c:30) (nom. nov. for *angustus* Macquart, 1848). Distr. — Uruguay.
- angustus* Macquart, 1848:198 (38) (*Aphritis*; preocc. Macquart, 1846). Type-locality: "Minas". Types ♂ ♀ MNHN?
- angustatus*, Fluke, 1957:29, misspelling.

- MARCELI Curran, 1936b:7. Type-locality: Brazil, Mato Grosso, Chapada Distr. — same. Type ♂ AMNH\*.
- MELLOGUTTA Hull, 1943e:704. Type-locality: "Amazon". Distr. — same. Type ♀ BM(NH).
- MIRABILIS Williston, 1888:257. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso, Santa Catarina), Paraguay. Types ♂ ♀ AMNH\*.
- bertonii* Bezzi, 1910:319. Type-locality: Paraguay, Puerto Bertoni. Types ♂ ♀ MCSNM. N. SYN.
- arcuata* Curran, 1941:250. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*. N. SYN.
- MITIS Curran, 1940:7. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil (Rio de Janeiro, Santa Catarina). Type ♂ AMNH\*.
- MUS Curran, 1936b:5. Type-locality: Brazil, São Paulo, Juquiá. Distr. — same. Type ♂ AMNH\*.
- NERO Curran, 1936b:6. Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo, Santa Catarina). Type ♂ AMNH\*.
- NESTOR Curran, 1940:11. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- NIGER Williston, 1891:4, pl. 1:3 (habitus), 3a (head). Type-locality: Mexico, Vera Paz, Panima. Distr. — Mexico, Bolivia. Type ♂ BM(NH).
- manni* Shannon, 1923b:80. Type-locality: Bolivia, Ivon, Río Beni. Type ♀ USNM\*. N. SYN.
- NIGRISPINOSUS Shannon, 1927a:21. Type-locality: Brazil, Amazonas, Tefé (as Ega). Distr. — Panama, Brazil. Type ♂ BM(NH).
- NORMALIS Curran, 1925c:343. Type-locality: Guyana, West bank of Demerara River. Distr. — Guyana. Type ♀ AMNH\*.
- OLIGONAX Hull, 1944j:35. Type-locality: Ecuador, Pto. America, Río Putumayo. Distr. — Ecuador, Brazil. Type ♀ CU\*.
- OPULENTUS Bigot, 1883b:319. Type-locality: "Brazil". Distr. — same. Type ♂ BM(NH).
- PAUPER (Rondani) 1848:74 (*Aphritis*). Type-locality: "Brazil". Distr. — same. Type ♂ MIZUN.
- PULCHER Williston, 1887b:5. Type-locality: Cuba, San Domingo. Distr. — Mexico (Durango), Cuba. Type ♀ USNM\*.
- REMOTUS Knab, 1917:142. Type-locality: Cuba. Distr. — same. Type ♂ USNM\*.
- REMUS Curran, 1941:250. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*.
- RHEOCHRYSSUS Hull, 1944j:38. Type-locality: Argentina, Jujuy, S. Juancito. Distr. — Brazil (São Paulo), Argentina (Jujuy). Type ♂ CU\*.
- RUBRIVENTRIS Lynch Arribálzaga, 1891:128 (1892c:32), fig. 2 (head). Type-locality: Argentina, Buenos Aires, Chacabuco. Distr. — same. Type ? MACN.
- RUFIVENTRIS (Rondani), 1848:73 (*Aphritis*). Type-locality: "Brazil". Distr. — same. Type ♀ MIZUN.
- SEABRAI (Papavero), 1962:317, fig. 1 (head) (*Pseudomicrodon*). Type-locality: Brazil, Guanabara, Sumaré. Type ♂ Seabra. N. COMB.
- SHANNONI Curran, 1940:8. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — same. Type ♀ AMNH\*.
- SOLITARIUS Curran, 1930f:8. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ AMNH\*.
- SPLENDENS Wiedemann, 1830:84. Type-locality: "Brazil". Distr. — Brazil (Mato Grosso, Santa Catarina). Type ♂ VMNH\*.

- STRAMINEUS Hull, 1943e:703. Type-locality: Brazil, Pará. Distr. — same.  
Type ♀ BM(NH).
- SUPERBUS Wiedemann, 1830:82. Type-locality: "Brazil". Distr. — same.  
Type ♀ SMF\*.
- TIGRINUS Curran, 1940:11. Type-locality: Brazil, Rio de Janeiro. Distr. —  
same. Type ♂ AMNH\*.
- TRILINEA Hull, 1943e:710. Type-locality: "Amazon". Distr. — same. Type ♂  
BM(NH).
- TRIVITTATUS Curran, 1925c:344. Type-locality: Guyana, Kartabo. Distr. —  
Guyana, Brazil (Amapá). Type ♂ AMNH\*.
- VIOLACEUS (Macquart), 1842:73 (13), pl. 1, figs. 3 (habitus), 3a (head)  
(*Aphritis*). Type-locality: "Chile". Distr. — Chile (Coquimbo —  
Malleco). Type ♂ MNHN\*.
- VIOLENS Townsend, 1895a:34. Type-locality: "Jamaica". Distr. — same.  
Type ♀? UK.
- VIRGO Curran, 1940:7. Type-locality: Brazil, Santa Catarina, Nova Teu-  
tônia. Distr. — same. Type ♂ AMNH\*.
- VIRIDIS Townsend, 1895b:610. Type-locality: Mexico, Baja California, San  
José del Cabo. Distr. — Canada (British Columbia), U.S.A.  
(California); Mexico. Type ♀ CAS (destroyed).
- WILLISTONI Mik, 1899:143 (nom. nov. for *inermis* Williston). Distr. —  
Argentina.  
*inermis* Williston, 1888:258 (preocc. Loew, 1858). Type-locality: Ar-  
gentina, Entre Ríos. Type ♂ AMNH\*.

#### Genus NOTHOMICRODON Wheeler

- NOTHOMICRODON Wheeler, 1924:243. Type-species, *aztecarum* Wheeler (orig.  
des.).
- AZTECARUM Wheeler, 1924:243, fig. 2 (habitus), 3 (details of puparium).  
Type-locality: Panama, Canal Zone, Frijoles. Types (larvae)  
USNM\*.

#### Subfamily MILESIINAE

##### Tribe PIPIZINI

##### Genus PIPIZA Fallén

- PIPIZA Fallén, 1810:11. Type-species, *Musca noctiluca* Linnaeus (Curtis,  
1837:pl. 669).
- Penium* Philippi, 1865:741. Type-species, *triste* Philippi (mon.).  
Ref. — Shannon & Aubertin, 1933 (key).
- AURANTIPES (Bigot), 1857a:297, pl. 7:8 (wing, head, antenna) (*Cheilosia*).  
Type-locality: "Chile". Distr. — Chile. Type ♂ OXF\*.
- flavipes* Philippi, 1865:738 (*Sterphus*; preocc. Philippi, 1865). Type-  
locality: "Chile". Type(s) ? MNHNS.
- ?BELLULA Williston, 1891:6. Type-locality: Mexico, Guerrero, Xucuma-  
natlán, 7000 ft. Distr. — same. Types ♂ BM(NH).
- CLARIPENNIS Shannon & Aubertin, 1933:144. Type-locality: Chile, Casa  
Pangue. Distr. — Chile, Argentina (Neuquén). Type ♂ BM(NH).
- FLAVIPES (Philippi), 1865:pl. 27, fig. 41 (*Penium*). Type-locality: "Chile".  
Distr. — same. Type(s) ♀ MNHNS [as 1st revisers, we here  
recognize *Penium flavipes* as senior to *Sterphus flavipes* Philippi].





- ?HIRSUTOPS Hull, 1949c:744. Type-locality: Mexico, Oaxaca. Distr. — same. Type ♂ BM(NH).  
 TRISTIS (Philippi), 1865:741 (*Penium*). Type-locality: Chile, Corral. Distr. — Chile. Type(s) ? MNHNS.  
*dubium* Bigot, 1884a:557 (*Penium*). Type-locality: "Chile". Types ♂ ♀ BM(NH).

#### Genus TRICHOPSOMYIA Williston

- TRICHOPSOMYIA Williston, 1888:259. Type-species, *polita* Williston (Hull, 1949d:330).  
*Halictomyia* Shannon, 1927a:13. Type-species, *boliviensis* Shannon (orig. des.).  
 Ref. — Fluke, 1937 (key).  
 BOLIVIENSIS (Shannon), 1927a:13, fig. 6 (wing) (*Halictomyia*). Type-locality: Bolivia, Cavinassas, Beni. Distr. — same. Type ♀ USNM.  
 CATHARINENSIS (Enderlein), 1938:195 (*Pipiza*). Type-locality: Brazil, Santa Catarina, Hochland. Type ♀ ZMB. N. COMB.  
 CURRANI Fluke, 1937:2, fig. 1 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*.  
 GRANDITIBIALIS Fluke, 1937:3, figs. 4 (hind leg), 5 (antenna). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*.  
 LASIOTIBIALIS Fluke, 1937:2, figs. 2 (head), 3 (antenna). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.  
 LONGICORNIS Williston, 1888:261. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♀ AMNH\*.  
 POLITA Williston, 1888:260. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Types ♂ ♀ AMNH\*.  
 PUELLA Williston, 1888:260. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Types ♂ ♀ AMNH\*.  
 TUBERCULATA Williston, 1888:260. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♀ AMNH\*.  
 ULEANA (Enderlein), 1938:195 (*Pipiza*). Type-locality: Brazil, Santa Catarina, Hochland. Distr. — same. Type ♂ ZMB. N. COMB.  
 URANIA Hull, 1949a:73. Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull.

#### Tribe CHEILOSIINI

##### Genus CHEILOSIA Meigen

- CHEILOSIA Meigen, 1822:296. Type-species, *Eristalis scutellatus* Fallén (Rondani, 1856:51).  
*Chilosia*, *auctororum*, misspelling or emendation.  
 Ref. — Hull & Fluke, 1950 (rev. of subgroups).

##### Subgenus CHEILOSIA Meigen

- Ref. — Hull & Fluke, 1950 (rev., key).  
 ?AUROTECTA Giglio-Tos, 1892d:4. Type-locality: Mexico, Orizaba. Distr. — same. Types ♂ ♀ UTOR. Ref. — Giglio-Tos, 1893: fig. 22 (head).  
*auritecta*, Fluke, 1957:44, misspelling.  
 CHRYSOCHLAMYS Williston, 1891:8, pl. 1:4 (habitus), 4a (head) (*Chilosia*). Type-locality: Mexico, Guerrero, Omiltemi; Sierra de las Aguas Escondidas, 9500 ft. Distr. — U.S.A. (California), Mexico.

Types ♂ ♀ BM(NH) & AMNH\*. Ref. — Hull & Fluke, 1950:346 (redescription), fig. 35 (head).

SORORIA Williston, 1891:8 (*Chilosia*). Type-locality: Mexico, Durango, Ciudad. Distr. — same. Types ♀ BM(NH). Ref. — Hull & Fluke, 1950:348 (redescription), fig. 24 (head).

#### Subgenus CARTOSYRPHUS Bigot

CARTOSYRPHUS Bigot, 1883b:230 (as genus). Type-species, *Syrphus paganus* Meigen (Coquillett, 1910b:376). Ref. — Fluke & Hull, 1947 (rev., key).

FRONTOSA (Bigot), 1884a:553 (*Cartosyrphus*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH).

SORORCULA Williston, 1891:9 (*Chilosia*). Type-locality: Mexico, Guerrero: Omiltemi, 8000 ft., Xucumanatlán, 7000 ft.; Sierra de las Aguas Escondidas, 7000 ft. Distr. — U.S.A. (Oregon to Idaho), south to Mexico. Types ♂ BM(NH). Ref. — Fluke & Hull, 1947:250, fig. 33 (head) (redescription).

#### Genus RHINGIA Scopoli

RHINGIA Scopoli, 1763:358. Type-species: *Conops rostrata* Linnaeus (mon.).

LONGIROSTRIS Fluke, 1943:430, figs. 10 (wing tip), 11 (head). Type-locality: Ecuador, Bolivar, Hda. Talahua, 3100 ft. Distr. — same. Type ♂ AMNH\*.

NIGRA Macquart, 1846:261 (133), tab. 11:10 (head). Type-locality: "Colombia". Distr. — Mexico (Tabasco), Colombia, Brazil. Types ♂ OXF\*. Ref. — Fluke, 1943:427, fig. 12 (head).

*harrisi* Curran, 1925b:253. Type-locality: Brazil, Rio de Janeiro, Petrópolis. Type ♂ CU. N. SYN.

#### Genus CHAMAESYRPHUS Mik

CHAMAESYRPHUS Mik, 1895:133. Type-species, *Rhingia scaevoides* Fallén (mon.).

WILLISTONI (Snow), 1895a:187 (*Pelecocera*). Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (New Mexico), Mexico. Type ♀ UK.

*skinneri* Johnson, 1903:101 (*Chilosia*). Type-locality: U.S.A., New Mexico, Beulah. Type ♀ ANSP. N. SYN.

#### Tribe VOLUCCELLINI

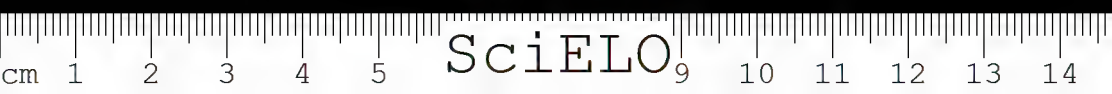
##### Genus ORNIDIA Lepeletier & Serville

ORNIDIA Lepeletier & Serville, in Latreille *et al.*, 1828:786. Type-species, *Syrphus obesus* Fabricius (orig. des.). Refs. — Curran, 1930d (key); Val, 1972 (key, biometry, evolution).

AEMULA (Willison), 1888:272 (*Volucella*). Type-locality: Bolivia, Santa Cruz, Piedra Blanca. [4 km West of Corumbá, Mato Grosso, Brazil]. Distr. — Venezuela, Bolivia, Colombia, Brazil. Types ♀ AMNH\*.

MAJOR Curran, 1930d:2. Type-locality: "Brazil". Distr. — Costa Rica, Panama, Ecuador, Peru, Brazil. Type ♂ AMNH\*.

OBESA (Fabricius), 1775:763 (*Syrphus*). Type-locality: "America". Distr. — U.S.A. (Georgia, New Mexico, Texas, Florida); south to Peru



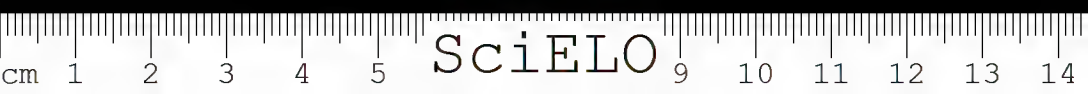
and Argentina (Entre Ríos, Tucumán). Types ? Kiel [not found — JRV]. Ref. — Williston, 1887b:312 (redescription), pl. 5:9 (head); Sack, 1921:138 (description), figs. 12 (larva), 11e (spiracular horn), 13 (anal organ of larva), 14 (puparium); Curran, 1925a: 206, pl. 10:141 (male genitalia).  
*violacea* Macquart, 1842:83 (23) (*Volucella*; preocc. Lepeletier & Serville, 1828; Say, 1830). Type-locality: Brazil. Type ♀ MNHN.  
*obesoides* Giglio-Tos, 1892c:4 (*Volucella*). Type-locality: Mexico. Type ♂ UTOR\*. N. SYN.

#### Genus TACHINOSYRPHUS Hull

TACHINOSYRPHUS Hull, 1936b:167. Type-species, *pseudotachina* Hull (orig. des.).  
 PSEUDOTACHINA Hull, 1936b:167. Type-locality: Peru, Crucero, Moscardones. Distr. — same. Type ♂ USNM\*. Ref. — Hull, 1949d:349, fig. 20f (head).

#### Genus COPESTYLUM Macquart

COPESTYLUM Macquart, 1846:252 (124). Type-species, *flaviventris* Macquart (mon.) = *marginatum* Say.  
*Phalacromyia* Rondani, 1848:67. Type-species, *submetallica* Rondani (Coquillett, 1910a:587).  
*Phalacromyia*, emendation.  
*Glaurotricha* Thomson, 1869:493. Type-species, *muscaria* Thomson (mon.).  
*Haurotricha* Thomson, 1869:493. Incorrect original spelling of *Glaurotricha* Thomson (1st reviser, Bigot, 1883b:250).  
*Atemnocera* Bigot, 1882a:cxiv. Type-species, *Volucella scutellata* Macquart (mon.).  
*Apophysophora* Williston, 1888:276. Type-species, *scutellata* Williston (Curran, 1930d:5) = *trituberculatum* Thompson.  
*Megametopon* Giglio-Tos, 1891:5. Type-species, *Ophromyia nasica* Williston (Williston, 1892:79 & Giglio-Tos, 1892e:44).  
*Ophromyia* Williston, 1891:55. Type-species, *nasica* Williston (mon.).  
*Camerania* Giglio-Tos, 1892a:3. Type-species, *macrocephala* Giglio-Tos (as *Temnocera megacephala*? Loew; orig. des.).  
*Viereckomyia* Curran, 1925b:246. Type-species, *Temnocera gibbera* Schiner (orig. des.).  
*Lepidopsis* Curran, 1925b:247. Type-species, *compactus* Curran (orig. des.).  
*Lepidosis*, Thompson, 1965, misspelling.  
*Volucella*, subg. *Volosyrpha* Shannon, 1929:575. Type-species, *tibialis* Shannon (orig. des.) = *rufitarse* Thompson.  
*Volucellosia* Curran, 1930d:5. Type-specie, *Volucella fornax* Townsend (orig. des.).  
 Refs. — Curran, 1930d (keys); Curran, 1939a (key); Curran, 1947b (key to *vesicularium* group); Curran, 1953 (keys to *abdominale* and *esuriens* groups); Curran, 1935 (key to *marginatum* group); Fluke, 1953 (key to *scutellatum* group).  
 ABDOMINALE (Wiedemann) 1830:196 (*Volucella*). Type-locality: "Cuba". Distr. — U.S.A. (Florida); Bahamas (Grand Turk I.), Cuba. Types ♂ VMNH & ZMB. Ref. — Curran, 1926a: 64 (redescription). N. COMB.  
 ABRUPTA (Curran), 1925b:251 (*Phalacromyia*). Type-locality: Brazil, Rio Grande do Norte, Baixa Verde. Distr. — Venezuela, Brazil.



- Type ♂ CU. Ref. — Fluke, 1951b:22 (redescription), figs. 10 (head), 19 (wing), 34 (scutellum), 44 (antenna). N. COMB.
- ACUTIFRONS (Curran), 1939b:12 (*Volucella*). Type-locality: Peru, Tarapoto Region. Distr. — Peru. Type ♂ AMNH\*. N. COMB.
- ALBIFRONS (Curran), 1939b:16 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- ALBIPILOSUM (Hull), 1937a:166 (*Volucella*). Type-locality: Mexico, San Martin. Distr. — same. Type ♂ USNM\*. N. COMB.
- ALBITARSE (Lynch Arribáizaga), 1892b:244 (1892c:145) (*Phalacromyia*). Type-locality: Argentina, Altas Misiones. Distr. — same. Type ♀ MACN. N. COMB.
- ALCEDO (Curran), 1926a:53; 1934b:388 (*Volucella*). Type-locality: "Venezuela". Distr. — Guyana, Venezuela. Type ♀ MCZ\*. N. COMB.
- ALCEDOIDES (Curran), 1939b:11 (*Volucella*). Type-locality: Trinidad, St. Ann's. Distr. — same. Type ♂ AMNH\*. N. COMB.
- ALCHIMISTA (Rondani), 1848:64, fig. 2 (wing) (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ MIZUN. N. COMB.
- AMBROSETII (Lynch Arribáizaga), 1892d:179 (1892c:129) (*Volucella*). Type-locality: Argentina, Misiones, Moconá. Distr. — same. Types ♂ ♀ MACN. N. COMB.
- AMETHYSTINUM (Bigot), 1875:479 (*Volucella*, as *amethystina*; emendation: Williston, 1891:52). Type-locality: "Mexico". Distr. — same. Type ♂ OXF\*. N. COMB.
- ANNA (Williston), 1887b:138, pl. 6:8 (head) (*Volucella*). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (Arizona, New Mexico); Mexico (Chiapas). Type ♂ USNM\*. Ref. — Curran, 1925a:206, pl. 10:142 (male genitalia). N. COMB.
- APERTUM (Walker), 1860:292 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH). N. COMB.
- APICALE (Loew), 1866a:151 (1872b:25) (*Volucella*). Type-locality: "Cuba". Distr. — U.S.A. (Maryland [Wirth, *et al.*, 1965:600]); Cuba. Type ♂ MCZ. Ref. — Williston, 1887b:149 (redescription). N. COMB.
- APICIFERUM (Townsend), 1895a:40 (*Volucella*). Type-locality: U.S.A., New Mexico, Las Cruces. Distr. — U.S.A. (California to Arizona); Mexico. Type ♀ UK. N. COMB.
- APICULA (Curran), 1939b:6 (*Volucella*). Type-locality: Peru, Middle Rio Ucayali. Distr. — Panama, Brazil (Acre), Peru. Type ♂ AMNH\*.
- ARICA (Fluke), 1950b:450, figs. 14 (head), 15 (antenna), 16 (male genitalia) (*Volucella*). Type-locality: Chile, Arica, Putre, 3650 m. Distr. — Chile (Antofagasta, Tarapacá). Type ♀ UCSC. N. COMB.
- ARICIA (Curran), 1930d:22 (*Volucella*). Type-locality: Argentina, foothills west of Mendoza. Distr. — Argentina (Tucumán to Río Negro). Type ♀ AMNH. N. COMB.
- diversum* Fluke, 1951b:11, figs. 3 (head), 25 (scutellum), 38 (antenna), 52 (male genitalia) (*Volucella*). Type-locality: Argentina, Río Negro, Isla Choele Choe. Type ♂ IML. N. SYN.
- ASTARTE (Hull, 1950a:70 (*Volucella*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull. N. COMB.
- ASTER (Curran), 1939b:3 (*Volucella*). Type-locality: Peru, Piches and Perené Valleys, 2000-3000 ft. Distr. — same. Type ♀ AMNH\*. N. COMB.
- AUREUM (Fluke), 1951b:13, figs. 6 (head), 27 (scutellum) (*Volucella*). Type-locality: Colombia, Cundinamarca, Zipacoa. Distr. — same. Type ♀ AMNH\*. N. COMB.



- AVIDUM (Osten-Sacken), 1877:333 (*Volucella*). Type-locality: U.S.A., California. Distr. — Canada (British Columbia) south to U.S.A. (California & Texas); Mexico (Guanajuato). Types ♂ MCZ\*. Ref. — Williston, 1887b:139 (redescription). N. COMB.
- AZUREUM (Philippi), 1865:734 (*Volucella*). Type-locality: Chile, Colchagua, "Prope Llico". Distr. — Chile (Aconcagua — Linares), Argentina. Type ♂ MNHNS. N. COMB.
- AZURINUM (Hull), 1941h:314 (*Volucella*). Type-locality: Brazil, Bonito(?). Distr. — same. Type ♂ Hull. N. COMB.
- BASSLERI (Curran), 1939b:9 (*Volucella*). Type-locality: Peru, Iquitos. Distr. — same. Type ♂ AMNH\*. N. COMB.
- BEATRICEA (Hull), 1950c:235 (*Volucella*). Type-locality: "Ecuador". Distr. — Ecuador. Type ♀ Hull. N. COMB.
- ecuadorea* Fluke, 1951b:14, figs. 7 (head), 28 (scutellum), 51 (male genitalia) (*Volucella*). Type-locality: Ecuador, Azuay, Cuenca, 2650 m. Type ♂ AMNH\*.
- BELINDA (Hull), 1949h:31 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ Hull. N. COMB.
- BELLULUM (Williston), 1891:42 (*Phalacromyia*). Type-locality: Mexico, North Yucatán, Temax. Distr. — same. Types ♂ BM(NH). N. COMB.
- BEQUAERTI Curran, 1930f:2. Type-locality: Mexico, Yucatán, Chichén Itzá. Distr. — same. Type ♂ AMNH\*.
- BIMACULATUM (Sack), 1941:110 (1951:106) (*Phalacromyia*). Type-locality: Peru, Pichis and Pachitea. Distr. — same. Types ♂ ♀ MD. N. COMB.
- BINOMINATUM (Goot), 1964:214 (*Volucella*; nom. nov. for *fuscipenne* Macquart). Distr. — Bolivia. N. COMB.
- fuscipenne* Macquart, 1850:435 (131), pl. 12, fig. 14 (head) (*Volucella*; preocc. Macquart, 1842). Type-locality: Bolivia, Chiquitos. Type ♀ MNHN. N. COMB.
- BIPUNCTATUM (Hull), 1941g:157 (*Phalacromyia*). Type-locality: Paraguay, Pastorea. Distr. — same. Type ♂ MCZ\*. N. COMB.
- BOLIVIANUM (Hine), 1914:338 (*Volucella*). Type-locality: Bolivia, La Paz. Distr. — Bolivia, Peru. Type ♀ OhSU. N. COMB.
- BRADLEYI (Curran), 1925c:348 (*Volucella*). Type-locality: Peru, Matucana. Distr. — Chile (Tarapacá), Peru (Lima, Arequipa). Type ♀ CU. Ref. — Fluke, 1951b:26 (redescription). N. COMB.
- BRAZILIANUM (Hull), 1938:124, fig. 4 (head) (*Volucella*). Type-locality: Brazil, Amazonas, Rio Purus, Huitanaã. Distr. — same. Type ♀ CM. N. COMB.
- BREVE (Giglio-Tos), 1892c:4 (*Volucella*). Type-locality: Mexico, Meztilán. Distr. — same. Types ♂ ♀ UTOR. N. COMB.
- BREVIFACIES (Curran), 1926a:52; 1934b:386, fig. 29 (head) (*Volucella*). Type-locality: Guyana, Kartabo. Distr. — Guyana, Brazil (Santa Catarina), Argentina (Tucumán). Type ♀ AMNH\*. N. COMB.
- BREVIVITTATUM (Curran), 1930d:14 (*Volucella*). Type-locality: Brazil, Mato Grosso, Argentina (Misiones). Type ♂ AMNH\*. N. COMB.
- BRUNERI (Curran), 1939b:6 (*Volucella*). Type-locality: Cuba, Oriente, Sierra del Cobre, Loma del Gato. Distr. — same. Type ♂ AMNH\*. N. COMB.
- BRUNNICOLOR (Hull), 1938:123, figs. 8 (head), 9 (abdomen) (*Volucella*). Type-locality: Brazil, Pará, Santarém. Distr. — same. Type ♂ CM. N. COMB.
- BRUNNIGASTER (Hull), 1943k:41 (*Volucella*). Type-locality: Colombia, Meta District. Distr. — same. Type ♂ USNM. N. COMB.

- BULBOSUM (Fluke) 1951b:24, figs. 13 (head), 35 (scutellum), 45 (antenna), 63 (male genitalia) (*Volucella*). Type-locality: Ecuador, Tungurahua, Volcano Tungurahua, Minza Chica, 3750 m. Distr. — Ecuador, Argentina (Catamarca, Tucumán). Type ♂ AMNH\*. N. COMB.
- CAESARIATUM (Williston), 1891:49 (*Volucella*). Type-locality: Mexico, Orizaba. Distr. — U.S.A. (Arizona), Mexico. Type ♀ BM(NH). N. COMB.
- coesariata*, Giglio-Tos, 1892, misspelling.
- hirsuta* Giglio-Tos, 1892c:3 (*Volucella*). Type-locality: Mexico, Meztillán. Type ♂ UTOR.
- CALOCHAETUM (Hull), 1941h:313 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ Hull. N. COMB.
- CAMPOSI (Curran), 1939b:8 (*Volucella*). Type-locality: Ecuador, Isla Puná, Puerto Grande. Distr. — Ecuador, Argentina (Tucumán). Type ♂ AMNH\*. N. COMB.
- CHAETOGASTER (Hull), 1943d:22 (*Volucella*). Type-locality: Brazil, Amazon. Distr. — same. Type ♀ BM(NH). Ref. — Hull, 1949d:349, fig. 20h (antenna), 20i (head). N. COMB.
- CHAETOPHORUM (Williston), 1887b:149 (*Volucella*). Type-locality: Mexico, Isthmus of Tehuantepec. Distr. — Mexico. Types ♂ ♀ USNM. Ref. — Williston, 1892: pl. 1:15 (habitus), 15a (head), 15b (antenna). N. COMB.
- CHALYBESCENS (Wiedemann), 1830:204 (*Volucella*). Type-locality: "Brazil". Distr. — Cuba, Trinidad, Colombia, Paraguay, Brazil. Type(s) ♂ VMNH [also 3♂, SMF\*, syntypes?]. Ref. — Curran, 1926a:59 (redescription). N. COMB.
- CHAPADENSE (Curran), 1930d:13 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso), Peru, Argentina (Tucumán). Type ♀ AMNH\*. N. COMB.
- CHLOROSUM (Hull), 1930:148 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♀ ANSP. N. COMB.
- CINCTIVENTRE (Curran), 1930d:16 (*Volucella*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ AMNH\*. N. COMB.
- CIRCE (Curran), 1939b:1 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- CIRCUMDATUM (Walker), 1857:154 (*Temnocera*). Type-locality: "Valley of Amazon". Distr. — same. Type ? BM(NH). N. COMB.
- CIRCUMSCRIPTUM (Curran), 1939b:13 (*Volucella*). Type-locality: Brazil, São Paulo. Distr. — same. Type AMNH\*. N. COMB.
- CLARIPENNE (Curran), 1925b:247 (*Phalacromyia*). Type-locality: Peru, Lima. Distr. — same. Type ♂ CU. N. COMB.
- CLARUM (Hull), 1942h:22 (*Volucella*). Type-locality: Brazil, São Paulo, Ipiranga. Distr. — same. Type ♀ Hull. N. COMB.
- COCKERELLI (Curran), 1927c:85 (*Volucella*). Type-locality: Peru, Tingo Maria. Distr. — Chile, Peru. Type ♂ AMNH\*. Ref. — Fluke, 1951b:17 (description), figs. 46 (antenna), 60 (male genitalia). N. COMB.
- COLOMBIENSE Thompson (nom. nov. for *bequaerti* Curran, 1936). Distr. — Mexico, Guatemala. NOM. NOV.
- bequaerti* Curran, 1936b:9 (*Volucella*; preocc. Curran, 1930). Type-locality: Guatemala, Guatálón, Moca, 3000 ft. Type ♀ AMNH\*.
- COMPACTUM (Curran), 1925b:247 (*Lepidopsis*). Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil (Rio de Janeiro, Santa Catarina). Type ♂ CU. N. COMB.

- COMSTOCKI (Williston), 1887b:138, pl. 6:9 (head) (*Volucella*). Type-locality: U.S.A., Arizona & New Mexico. Distr. — U.S.A. (Utah to Wyoming, south to Arizona & Texas); Mexico (Sonora). Types ♂ ♀ USNM. N. COMB.
- CONCINNUM (Philippi), 1865:733 (*Volucella*). Type-locality: Chile, Prov. Santiago & Prov. Aconcagua. Distr. — Chile (Coquimbo — Santiago). Types ♂ ♀ MNHS. N. COMB.
- CONIFACIUM (Hull), 1943d:39 (*Volucella*). Type-locality: "Trinidad". Distr. — same. Type ♂ BM(NH). N. COMB.
- CONTUMAX (Curran), 1939b:4 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ AMNH\*. N. COMB.
- CORDIAE (Townsend), 1897a:27 (*Volucella*). Type-locality: Mexico, Vera Cruz, Río Nautla, San Rafael. Distr. — same. Types ♀ BM(NH). N. COMB.
- CORRECTUM (Curran), 1927c:87 (*Volucella*). Type-locality: Costa Rica, San José. Distr. — Panama, Trinidad. Type ♂ UK. N. COMB.
- CORUMBENSE (Curran), 1930d:18 (*Volucella*). Type-locality: Brazil, Mato Grosso, Corumbá. Distr. — same. Type ♀ AMNH\*. N. COMB.
- CRAVERII (Giglio-Tos), 1892c:2 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♂ UTOR. N. COMB.
- CREPUSCULARIUM (Hull), 1942g:94 (*Volucella*). Type-locality: Brazil, Paraná, Paranaguá. Distr. — same. Type ♀ MCZ. N. COMB.
- CRUCIATUM (Hull), 1943d:37 (*Volucella*). Type-locality: Guatemala, Zapote. Distr. — same. Type ♀ BM(NH). N. COMB.
- CUBOMACULATUM (Hull), 1937a:167, fig. 5 (abdomen) (*Volucella*). Type-locality: Peru, Iquitos. Distr. — same. Type ♀ USNM. N. COMB.
- CUPRICOLOR (Hull), 1948b:6 (*Volucella*). Type-locality: "Venezuela". Distr. — same. Type ♀ USNM. N. COMB.
- CURIOSUM (Curran), 1939b:1 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- CURRANI (Fluke), 1951b:12, figs. 5 (head), 26 (scutellum), 48 (male genitalia) (*Volucella*). Type-locality: Ecuador, Azuay, Cuenca, 2650 m. Distr. — Ecuador. Type ♀ AMNH\*. N. COMB.
- CYANESCENS (Macquart), 1842:84 (24), pl. 6, figs. 1 (habitus), 1a (head) (*Volucella*). Type-locality: "Brazil". Distr. — Guyana, Brazil. Type ? MNHN? [not found — JRV]. N. COMB.
- CYANOPROCTUM (Curran), 1939b:11 (*Volucella*). Type-locality: "Peru". Type ♂ AMNH. N. COMB.
- CYANOPRORA (Curran), 1939b:10 (*Volucella*). Type-locality: Venezuela, Caura Valley. Distr. — same. Type ♂ AMNH. N. COMB.
- DECEPTOR (Curran), 1925b:248 (*Phalacromyia*). Type-locality: Venezuela, Caura Valley. Distr. — Venezuela, Brazil (Mato Grosso). Type ♂ MCZ\*. Ref. — Curran, 1930d:13, fig. 1 (head). N. COMB.
- fuscipennis*, Williston, 1888:276, misidentification.
- DELILA (Hull), 1950c:230 (*Volucella*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- DICHOPTICUM Thompson (nom. nov. for *violaceum* Curran). Distr. — Mexico (Yucatán), Panama. NOM. NOV.
- violaceum* Curran, 1930f:1 (*Megametopon*; preocc. Say, 1830). Type-locality: Mexico, Yucatán, Chichén Itzá. Type ♂ AMNH.
- DICHROICUM (Giglio-Tos), 1892c:3 (*Volucella*). Type-locality: Mexico, Huastec. Distr. — Mexico, Guatemala. Type ♀ UTOR. N. COMB.
- DIMORPHIUM (Curran), 1939b:14 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH\*. N. COMB.



- DISCALE (Curran), 1926a:57 (*Volucella*). Type-locality: "Grenada". Distr. — same. Type ♂ USNM. N. COMB.
- DISPAR (Macquart), 1846:251 (123), pl. 11, figs. 2 (wing), 2a (head) (*Volucella*). Type-locality: "New Grenada". Distr. — Guatemala, Panama, Colombia, Venezuela. Types ♂ ♀ OXF\* & MNHN? N. COMB.
- ?*metalliferum* Walker p.p., 1849:636 (*Volucella*). Type-locality: "Venezuela". Type ♀ BM(NH) [Curran, 1953:8 split the species without designation of lectotype; the specimen from Mexico was placed under *mexicana* Macquart and is considered here as valid, q.v.l.].
- ?*transatlanticum* Rondani, 1863:4 (*Volucella*). Type-locality: "America merid.". Types ♂ ♀ MIZUN.
- DORSALE (Wiedemann), 1830:199 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ VMNH. Ref. — Curran, 1926a:61 (redescription). N. COMB.
- DRACAENA (Curran), 1947b:2 (*Volucella*). Type-locality: U.S.A., Hawaii, Honolulu. Distr. — U.S.A. (Hawaii); Costa Rica (Wirth in Hardy, 1964:405). Type ♂ AMNH\*. N. COMB.
- DUIDA (Curran), 1930d:21 (*Volucella*). Type-locality: Venezuela, Mt. Duida. Distr. — same. Type ♀ AMNH\*. N. COMB.
- EMERALDA (Hull), 1934d:20 (*Volucella*). Type-locality: Brazil, Amazon. Distr. — same. Type ♂ BM(NH). N. COMB.
- EMILIA (Curran), 1939b:6 (*Volucella*). Type-locality: Guatemala, Pochuta, Sa. Emilia, 1000 m. Distr. — same. Type ♂ AMNH\*. N. COMB.
- ERNESTA (Curran), 1926a:55 (*Volucella*). Type-locality: Panama, Tuipo. Distr. — Guatemala, Panama. Type ♀ AMNH\*. N. COMB.
- ERNESTINA (Curran), 1930f:5 (*Volucella*). Type-locality: Mexico, Yucatán, Chichén Itzá. Distr. — Mexico (Yucatán), Peru (Cuzco). Type ♂ AMNH\*. N. COMB.
- ESCOMELI (Curran), 1929:489 (*Volucella*). Type-locality: Peru, Arequipa. Distr. — Peru, Chile (Tarapacá). Type ♂ AMNH\*. Ref. — Fluke, 1951b:16 (description), figs. 15 (head), 29 (scutellum), 40 (antenna), 55 (male genitalia). N. COMB.
- ESURIENS (Fabricius), 1794:281 (*Syrphus*). Type-locality: "Americae Insulis". Distr. — Puerto Rico. Type ♀ Kiel\*. Ref. — Curran, 1953:8 (redescription). N. COMB.
- rica* Curran, 1939a:6 (*Volucella*). Type-locality: Puerto Rico, Ensenada. Type ♀ AMNH\*.
- EUGENIA (Williston), 1887b:139, pl. 6:10 (head) (*Volucella*). Type-locality: Bahamas; U.S.A., Florida. Distr. — U.S.A. (Florida); Bahamas. Types ♀ USNM. N. COMB.
- ingenia* Curran, 1930f:4 (*Volucella*). Type-locality: Bahamas, Andros Island, Mangrove Cay, Gibson Cay. Type ♀ AMNH\*.
- EXEUGENIA (Curran), 1953:4 (*Volucella*). Type-locality: Jamaica, St. Andrew, Constant Spring. Distr. — Jamaica. Type ♂ AMNH\*. N. COMB.
- EXTERNUM (Curran), 1939b:10 (*Volucella*). Type-locality: Peru, Río Marañón. Distr. — Peru. Type ♂ AMNH\*. N. COMB.
- FLAVIPENNE (Wiedemann), 1830:203 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ ZMB. N. COMB.
- FLAVISSIMUM (Giglio-Tos), 1892c:3 (*Volucella*). Type-locality: Mexico, Orizaba. Distr. — same. Type ♀ UTOR. N. COMB.
- FLAVIVENTRE Macquat, 1846:253 (125), pl. 10, figs. 16 (habitus), 16a (head). Type-locality: "Colombia, Venezuela". Distr. — same. Types ♂ ♀ OXF\* [types not *marginatum* Say, either *caudatum* Curran or species near it — JRV]. N. STATUS.



- FLORELLA (Hull), 1944j:49 (*Volucella*). Type-locality: Guyana, Potaro River, Tumatumari. Distr. — same. Type ♀ CU. N. COMB.
- FLUKEI (Curran, 1936b:10 (*Volucella*). Type-locality: Brazil, Paraná. Distr. — same. Type ♀ AMNH\*. N. COMB.
- FORNAX (Townsend), 1895b:613 (*Volucella*). Type-locality: Mexico, Baja California, El Toste. Distr. — U.S.A. (California, Arizona), Mexico. Type ♂ CAS [destroyed]. N. COMB.
- FRACTUM (Curran, 1926a:58 (*Volucella*). Type-locality: French Guiana, Cayenne. Distr. — same. Type ♀ AMNH\*. N. COMB.
- FRAUDULENTUM (Williston), 1891:48, pl. 1:13 (habitus), 13a (head), 13b (antenna) (*Volucella*). Type-locality: Mexico, Guerrero, Venta de Zopilote, 2800 ft.; North Yucatán, Temax. Distr. — U.S.A. (California to Texas, south to Mexico (Guerrero, Yucatán). Types ♂ ♀ BM(NH) + AMNH\*. N. COMB.
- FRAUENFELDI (Schiner), 1868:358 (*Temnocera*). Type-locality: "Chile". Distr. — Chile, Argentina (Tucumán, La Rioja, Mendoza). Type ♂ ♀ VMNH. Ref. — Shannon & Aubertin, 1933:170, fig. 35a (head); Fluke, 1915b:19 (redescription), fig. 32 (scutellum). N. COMB.
- FRONTALE (Sack), 1941:107 (1951:103) (*Volucella*). Type-locality: Peru, Tayapampa; Querosbamba, 3520 m.; Lake Titicaca. Distr. — Peru. Types ♂ ♀ MD. N. COMB.
- FULVICORNE (Bigot), 1883b:84 (*Volucella*). Type-locality: "Panama". Distr. — same. Types ♂ ♀ OXF\*. N. COMB.
- FULVOLUCENS (Walker), 1852:252 (*Temnocera*). Type-locality: "Brazil". Distr. — same. Type ♂ BM(NH). N. COMB.
- fulvolucus* Williston, 1887a:28 (*Temnocera*), misspelling.
- FULVONOTATUM (Bigot), 1875:476 (*Volucella*). Type-locality: Uruguay, Montevideo. Distr. — same. Type ♀ OXF\*. N. COMB.
- FUMIPENNE (Sack), 1941:104 (1951:108) (*Volucella*). Type-locality: Peru, Sivia; Peru; Costa Rica. Distr. — same. Types ♂ ♀ MD & SMF. N. COMB.
- FUMOSUM (Hull), 1943d:32 (*Volucella*). Type-locality: Brazil, Mt. Roraima, 8600 ft. Distr. — same. Type ♀ BM(NH). N. COMB.
- FURENS (Giglio-Tos), 1892c:2 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♂ UTOR. N. COMB.
- FUSCIPENNE (Macquart), 1842:84 (24), pl. 4, fig. 2 (habitus) (*Volucella*). Type-locality: "Brazil". Distr. — Brazil, Argentina (Tucumán). Type ♀ MNHN. Ref. — Sack, 1921:136 (description), figs. 9 (larva), 11b (spiracular horn). N. COMB.
- GERTSCHI (Curran), 1939b:15 (*Volucella*). Type-locality: Panama, Chiriquí, El Volcan. Distr. — Guatemala, Panama. Type ♂ AMNH\*. N. COMB.
- GIBBERUM (Schiner), 1868:358 (*Temnocera*). Type-locality: "Colombia". Distr. — same. Type ♀ VMNH. Ref. — Curran, 1925b:246 (description ♂). N. COMB.
- GORGON (Hull), 1950c:233 (*Volucella*). Type-locality: Peru, Chanchamayo, 1000 m. Distr. — same. Type ♂ Hull. N. COMB.
- GRANULATUM (Hull), 1944j:50 (*Volucella*). Type-locality: Peru, Río Pichis, Puerto Bermúdez. Distr. — same. Type ♀ CU. N. COMB.
- GUIANICUM (Hine), 1914:338 (*Volucella*). Type-locality: Guyana, Bartica. Distr. — same. Type ♀ OhSU. N. COMB.
- HAAGII (Jaenicke), 1867:397 (*Volucella*). Type-locality: "Mexico". Distr. — U.S.A. (California to Texas), south to Mexico (Oaxaca).

- Types ♀ SMF? Ref. — Williston, 1887b:147 (description), pl. 5, fig. 8 (head). N. COMB.
- hagii*, Williston, 1887b:147, misspelling.
- setigera* Osten Sacken, 1877:334 (*Temnocera*). Type-locality: U.S.A., New Mexico, Vermejo River. Type ♀ MCZ.
- HAMBLETONI (Fluke), 1951b:16, figs. 16 (head), 41 (antenna), 57 (male genitalia) (*Volucella*). Type-locality: Peru, Cañete. Distr. — Ecuador, Peru. Type ♂ AMNH\*. N. COMB.
- HIRTIPES (Macquart), 1850:434 (130), pl. 12, figs. 13 (scutellum), 13a (hind leg) (*Volucella*). Type-locality: Bolivia, Yungas. Distr. — Colombia, Brazil, Bolivia, Argentina (Misiones). Type ♂ MNHN. N. COMB.
- HORTICOLE (Hull), 1943d:21 (*Volucella*). Type-locality: Brazil, Amazon. Distr. — same. Type ♀ BM(NH). N. COMB.
- HORVATHI (Szilády), 1926:610, fig. 18 (habitus) (*Graptomyza*). Type-locality: "Cuba". Distr. — same. Type ♀ DEI. N. COMB.
- HYALINIPENNE (Hull), 1944f:36 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ Hull. N. COMB.
- HYALOPTERUM (Giglio-Tos), 1892c:3 (*Volucella*). Type-locality: Mexico, Tampico. Distr. — same. Type ♀ UTOR. N. COMB.
- HYDROFENESTRA (Hull), 1943n:513 (*Volucella*). Type-locality: Colombia, Muzo. Distr. — same. Type ♀ Hull. N. COMB.
- HYSTRIX (Giglio-Tos), 1892c:4 (*Volucella*). Type-locality: Mexico, Tuxpango. Distr. — same. Type ♂ UTOR. N. COMB.
- IMITANS (Curran), 1926a:63 (*Volucella*). Type-locality: Mexico. Distr. — same. Type ♂ AMNH\*. N. COMB.
- IMPRESSUM (Hull), 1949f:30 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ Hull. N. COMB.
- INCOMMODUM (Knab), 1916a:93 (*Volucella*). Type-locality: Panama, Canal Zone, Ancón. Distr. — same. Types ♂ ♀ USNM. N. COMB.
- INCONSISTENS (Curran), 1939b:3 (*Volucella*). Type-locality: Brazil, Mt. Roraima, 5400 ft. Distr. — Costa Rica, Brazil. Type ♀ AMNH\*. N. COMB.
- INQUISITOR (Hull), 1943d:26 (*Volucella*). Type-locality: Central America. Distr. — Mexico, Central America. Type ♂ BM(NH). N. COMB.
- INTEGRUM (Walker), 1857:155 (*Temnocera*). Type-locality: "Valley of Amazon". Distr. — same. Type ? BM(NH). N. COMB.
- INTONA (Curran), 1928b:22 (*Volucella*). Type-locality: Jamaica, Gordon Town. Distr. — same. Type ♀ BM(NH). N. COMB.
- ISABELLINA (Williston), 1887b:140 (*Volucella*). Type-locality: U.S.A., Arizona. Distr. — U.S.A. (California to Colorado), south to Mexico (Sonora). Type ♀ USNM. N. COMB.
- JOHNSONI (Curran), 1925b:249 (*Phalacromyia*). Type-locality: Venezuela, Caura Valley. Distr. — same. Type ♂ MCZ. N. COMB.
- KAHLI (Hull), 1938:122, fig. 5 (abdomen) (*Volucella*). Type-locality: French Guiana, Mana River. Distr. — same. Type ♀ CM. N. COMB.
- LACTICOERULEUM (Hull), 1944f:35 (*Volucella*). Type-locality: Brazil, São Paulo, Praia Grande do Rio Feio, Penápolis. Distr. — same. Type ♂ Hull. N. COMB.
- LANEI (Curran), 1936b:11 (*Volucella*). Type-locality: Brazil, São Paulo, Juquiá. Distr. — Brazil (São Paulo, Santa Catarina). Type ♂ AMNH\*. N. COMB.
- LATEVITTATUM (Curran), 1939b:16 (*Volucella*). Type-locality: Colombia, between Querebral and Buenaventura. Distr. — Colombia, Peru, Bolivia. Type ♂ AMNH\*. N. COMB.

- LATUM (Wiedemann), 1830:195 (*Volucella*). Type-locality: Mexico, Oaxaca. Distr. — Mexico. Type ♀ ZMB. N. COMB.
- lacta*, Bigot, 1883b:76, misspelling.
- LIMBIPENNE Williston, 1887b:152. Type-locality: Mexico, Isthmus of Tehuantepec. Distr. — U.S.A. (Texas), Mexico. Type ♀ USNM. Ref. — Williston, 1891:pl. 2:2 (habitus), 2a (head), 2b (antenna). N. COMB.
- lucasana* Townsend, 1895b:615 (*Volucella*). Type-locality: Mexico, Baja California, El Taste. Type ♀ CAS [destroyed].
- lucana*, Townsend, 1895a:44, misspelling.
- LIRIOPE (Hull), 1949f:28 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ Hull. N. COMB.
- LUCILIA (Hull), 1950a:65 (*Volucella*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- LUGENS (Wiedemann), 1830:206 (*Volucella*). Type-locality: "Brazil". Distr. — Guatemala, Brazil. Type ♀ VMNH. Ref. — Curran, 1926a:65 (redescription). N. COMB.
- LUMINA (Hull), 1937a:168, fig. 8 (abdomen) (*Volucella*). Type-locality: Bolivia, Ramupasa. Distr. — same. Type ♀ USNM. N. COMB.
- LUNULIFERUM (Hull), 1937a:167 (*Volucella*). Type-locality: Peru, Iquitos. Distr. — same. Type ♂ USNM. N. COMB.
- MACQUARTI (Curran), 1926a:60 (*Volucella*). Type-locality: Honduras, Prieta. Distr. — Mexico, Honduras, Trinidad, Guyana, Brazil, Peru, Bolivia. Type ♀ AMNH\*. N. COMB.
- MACROCEPHALUM (Giglio-Tos), 1892e:45 (*Camerania*). Type-locality: "Mexico". Distr. — U.S.A. (Arizona), Mexico. Type ♂ UTOR. N. COMB.
- MACRORHINUM (Bigot), 1875:474 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ OXF. N. COMB.
- MACULA (Wiedemann), 1830:200 (*Volucella*). Type-locality: "Brazil". Distr. — Mexico (Tabasco), Guyana, Brazil (Mato Grosso). Types ♂ ♀ VMNH. N. COMB.
- MACULOIDES (Curran), 1939b:10 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH. N. COMB.
- MARCELI (Curran), 1939b:7 (*Volucella*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ AMNH. N. COMB.
- MARGINATUM (Say), 1830:167 (*Volucella*). Type-locality: Mexico. Distr. — U.S.A. (California to Colorado), south to Mexico. Type ? Lost. Ref. — Williston, 1887b:151 (description), pl. 7:1 (wing), 1a (head), 1b (antenna); Curran, 1925a:206, pl. 10:146 (male genitalia).
- distinctum* Giglio-Tos, 1892e:41, fig. 15 (abdomen). Type-locality: Mexico, Tehuacán. Types ♂ ♀ UTOR.
- fax* Townsend, 1895a:42 (*Volucella*). Type-locality: U.S.A., Colorado, Fort Collins. Type ♂ ?
- inops* Townsend, 1895a:43 (*Volucella*). Type-locality: U.S.A., Colorado, Fort Collins. Type ♀ UK.
- toltec* Townsend, 1895a:45 (*Volucella*). Type-locality: Mexico, Guanajuato. Type ♂ ?
- tolteca*, Townsend, 1895d:6, misspelling.
- estebana* Townsend, 1895b:612 (*Volucella*). Type-locality: Mexico, Baja California, San Esteban. Types ♂ ♀ CAS [destroyed].
- sodomis* Townsend, 1895b:616 (*Volucella*). Type-locality: Mexico, Baja California, El Taste. Types ♂ CAS [destroyed].
- MEGACEPHALUM (Loew), 1863:305 (1864b:189) (*Temnocera*). Type-locality: U.S.A., California. Distr. — U.S.A. (California), Mexico. Type ♀



- MCZ. Ref. — Williston, 1887b:146 (description). N. COMB.
- MELLEUM (Jaennicke), 1867:396 (*Volucella*). Type-locality: "Mexico". Distr. — Mexico (Guanajuato, Distrito Federal). Types ♂ ♀ SMF. N. COMB.
- MERETRICIAS (Williston), 1888:272 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada; Rio de Janeiro. Distr. — Brazil (Rio de Janeiro, Santa Catarina, Mato Grosso), Argentina (Misiones). Types ♂ ♀ AMNH\*. N. COMB.
- METALLIFERUM (Walker), p.p., 1849:636 (*Volucella*). Type-locality: Mexico [specimen from Venezuela under *dispar* Macquart(q.v.)]. Distr. — U.S.A. (California to Texas), south to Mexico (Yucatán). Type ♀ BM(NH). Ref. — Curran, 1925a:206, pl. 10:143 (male genitalia); Curran, 1953:7 (revision). N. COMB.
- violaceum* Say, 1830:166 (*Volucella*; preocc. Lepeletier & Serville, 1825). Type-locality: "Mexico". Type(s) ♂ lost.
- maximiliani* Jaennicke, 1867:395 (*Volucella*). Type-locality: "Mexico". Types ♂ ♀ SMF.
- METALLORUM (Walker), 1852:252 (*Temnocera*). Type-locality: Brazil, Pará. Distr. — same. Type ♂ BM(NH). N. COMB.
- MEXICANUM (Macquart), 1842:85 (25), pl. 5, figs. 3 (habitus), 3a (head) (*Volucella*). Type-locality: "Mexico". Distr. — U.S.A. (California to Georgia, south to Mexico (Yucatán). Type ♀ MNHN\*. Ref. — Williston, 1887b:137 (redescription), pl. 6, figs. 5 (wing), 5a (head). N. COMB.
- nigrum* Greene, 1923:165 (*Volucella*). Type-locality: U.S.A., florida, Miami. Type ♂ USNM\*. N. SYN.
- MINIMUM (Giglio-Tos), 1892c:3 (*Volucella*). Type-locality: Mexico, Orizaba. Distr. — same. Type ♂ UTOR. N. COMB.
- MISSIONERA (Lynch Arribáizaga), 1892b:183 (1892c:134) (*Volucella*). Type-locality: Uruguay, Misiones. Distr. — same. Type ♀ MACN. N. COMB.
- MOCANUM (Curran), 1936b:11 (*Volucella*). Type-locality: Guatemala, Moca Guatálón. Distr. — Guatemala, Peru, Venezuela. Type ♀ AMNH\*. N. COMB.
- MORPHO (Curran), 1939b:2 (*Volucella*). Type-locality: Brazil, Pernambuco. Distr. — same. Type ♀ AMNH\*. N. COMB.
- MUS (Williston), 1888:274 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso), Peru, Argentina (Tucumán). Types ♂ ♀ AMNH\*. Ref. — Sack, 1921:137, figs. 10 (puparium), 11c (spiracular horn). N. COMB.
- MUSANUM (Curran), 1930d:16 (*Volucella*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ AMNH\*. N. COMB.
- MUSCARIUM (Thomson), 1869:493 (*Haurottricha*). Type-locality: Argentina, Buenos Aires. Distr. — Colombia, Argentina. Type ♀ NRS\*. N. COMB.
- argentina* Bigot, 1883b:83 (*Phalacrotrichia*). Type-locality: Argentina, Buenos Aires. Type ♂ BM(NH).
- MUSICANUM (Curran), 1930d:15 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH\*. N. COMB.
- MUSTOIDES (Curran), 1927c:84 (*Volucella*). Type-locality: Honduras, Prieta. Distr. — same. Type ♂ AMNH\*. N. COMB.
- NASICUM (Williston), 1891:55, pl. 2:1 (habitus), 1a (head), 1b (antenna) (*Ophromyia*). Type-locality: Mexico, Guerrero, Acaguizotla. Distr. — Mexico. Types ♂ BM(NH). Ref. — Hull, 1949d:349, fig. 20e, 20g (head). N. COMB.



- NAUTLANUM (Townsend), 1897b:28 (*Volucella*). Type-locality: Mexico, Vera Cruz, Río Nautla, San Rafael. Distr. — same. Types ♂ BM(NH). N. COMB.
- NEOSPLENDENS Thompson (nom. nov. for *splendens* Hull). Distr. — Brazil (Santa Catarina). NOM. NOV.
- splendens* Hull, 1949f:26 (*Volucella*; preocc. Townsend, 1897). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ Hull. Ref. — Fluke, 1951b:27 (descriptive note).
- NEOTROPICUM Thompson (nom. nov. for *vesiculosum* Fabricius, 1805). Distr. — South America. NOM. NOV.
- vesiculosum* Fabricius, 1805:226 (*Syrphus*; preocc. Fabricius, 1794). Type-locality: "America meridionali". Type ? MC.
- NIGRIFACIES (Bigot), 1875:479 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH). N. COMB.
- NIGRIFRONS (Hine), 1914:340 (*Phalacromyia*). Type-locality: Guyana, Bar-tica. Distr. — same. Type ♀ OhSU. N. COMB.
- NIGRIPES (Bigot), 1857a:296, pl. 7:9 (head) (*Phalacromyia*). Type-locality: "Chile". Distr. — Peru, Chile. Type ♂ OXF\*. N. COMB.
- concolor* Philippi, 1865:735 (*Phalacromyia*). Type-locality: Chile, Prov. Santiago. Type(s) ? MNHNS. N. SYN.
- NIGROPODUM (Hull), 1949f:35 (*Volucella*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull. N. COMB.
- NIGROVIRIDE (Hull), 1949h:37 (*Volucella*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull. N. COMB.
- NITIDIGASTER (Hull), 1937a:165 (*Volucella*). Type-locality: Argentina, Tucumán, Villa Nogués. Distr. — same. Type ♂ USNM. N. COMB.
- NOTATUM (Bigot), 1875:475 (*Volucella*). Type-locality: Uruguay, Montevideo. Distr. — same. Types ♂ ♀ OXF\*. N. COMB.
- OBLIQUICORNE (Curran), 1939b:12 (*Volucella*). Type-locality: Guyana, Tu-matumari. Distr. — same. Type ♂ AMNH\*. N. COMB.
- OBSCURIPENNE (Lynch Arribáizaga), 1892b:180 (1892c:130 (*Volucella*)). Type-locality: Argentina, Misiones, Monteagudo. Type ? MACN. N. COMB.
- OBSCURIUS (Curran), 1939b:5 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán, La Rioja). Type ♂ AMNH. N. COMB.
- OESTROIDES (Hull), 1943d:23 (*Volucella*). Type-locality: Brazil, Rio de Janeiro. Distr. — same. Type ♂ BM(NH). N. COMB.
- OMOCHROMA (Giglio-Tos), 1892c:2 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♀ UTOR. N. COMB.
- OPALICOLOR (Hull), 1943d:36 (*Volucella*). Type-locality: Bolivia, Prov. Sara, Santa Cruz de la Sierra. Distr. — same. Type ♀ BM(NH). N. COMB.
- OPEOSTOMA (Hull), 1949h:32 (*Volucella*). Type-locality: Panama, Chiriquí, Volcán, Bambito. Distr. — same. Type ♀ Hull. N. COMB.
- OPINATOR (Williston), 1891:51, pl. 1:14 (habitus), 14a (head), 14b (an-tenna) (*Volucella*). Type-locality: Mexico, Vera Cruz, Atoyac. Distr. — same. Type ♀ BM(NH). N. COMB.
- ORNATUM (Williston), 1891:49 (*Volucella*). Type-locality: Mexico, Jalapa. Distr. — same. Types ♂ BM(NH) + AMNH\*. N. COMB.
- hispida* Giglio-Tos, 1892c:4 (*Volucella*). Type-locality: Mexico, Ori-zaba. Type ♂ UTOR.
- OSBURNI (Hull), 1942a:92 (*Volucella*). Type-locality: Paraguay, Villarica. Distr. — Paraguay, Argentina (Tucumán). Type ♂ MCZ\*. N. COMB.

- PACHECOI (Curran), 1939b:13 (*Volucella*). Type-locality: Guatemala. Distr. — same. Type ♀ AMNH\*. N. COMB.
- PALLENS (Wiedemann), 1830:204 (*Volucella*). Type-locality: "Brazil". Distr. — U.S.A. (Arizona to North Carolina), south to Argentina and Brazil. Types ♀ VMNH + SMF\*. Ref. — Williston, 1887b:141 (redescription), pl. 6:2 (wing); Sack, 1921:137, fig. 11a (spiracular horn). N. COMB.
- sexmaculatum* Palisot de Beauvois, 1819:224, pl. 3:8 (habitus) (*Syrphus*). Type-locality: Dominican Republic, Santo Domingo, Southern U.S.A. Types ? ? N. SYN. [*nomen oblitum*].
- testaceum* Rondani, 1848:67 (*Volucella*). Type-locality: Brazil. Type ♀ MIZUN.
- sexpunctatum* Loew, 1861:38 (*Volucella*). Type-locality: "Cuba". Type ♀ MCZ.
- var. QUADRIPUNCTATUM (Doesburg), 1963:17, 30. Type-locality: Surinam, Paramaribo. Distr. — same. Type ♂ Doesburg.
- PALLIDITHORAX (Hull), 1941g:156, fig. 8 (mesonotum) (*Volucella*). Type-locality: Honduras, Rosario Mires. Distr. — same. Type ♀ MCZ\*. N. COMB.
- PALLIDUM (Macquart), 1842:86 (26) (*Volucella*). Type-locality: "Guyana". Distr. — same. Type ♂ MNHN\*. N. COMB.
- PALLISTERI (Curran), 1953:9 (*Volucella*). Type-locality: Mexico, Distrito Federal, Tlalpán. Distr. — same. Type ♂ AMNH\*. N. COMB.
- PALMYRA (Hull), 1949f:33 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ Hull. N. COMB.
- PANAMENSE (Curran), 1930d:17 (*Volucella*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama. Type ♂ AMNH\*. N. COMB.
- PANAMENUM (Curran), 1939b:12 (*Volucella*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama, Peru. Type ♂ AMNH\*. N. COMB.
- PARANA (Hull), 1942h:23 (*Volucella*). Type-locality: Brazil, Paraná. Distr. — same. Type ♂ Hull. N. COMB.
- PARINA (Fluke), 1951b:25, figs. 14 (head), 61 (male genitalia) (*Volucella*). Type-locality: Chile, Arica, Parinacota. Distr. — same. Type ♂ UCSC. N. COMB.
- PARVUM (Rondani), 1848:66 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♀ MIZUN. N. COMB.
- PECTORALE (Rondani), 1863:3 (*Volucella*). Type-locality: "America meridional". Distr. — same. Types ♂ ♀ MIZUN. N. COMB.
- PERLATUM (Hine), 1914:339 (*Volucella*). Type-locality: Guatemala, Los Amates. Distr. — same. Type ♂ OhSU. N. COMB.
- PERSIMILE (Williston), 1888:273 (*Volucella*). Type-locality: Brazil, Destares (?); Mato Grosso, Chapada; Rio de Janeiro. Distr. — same. Types ♂ ♀ AMNH\*. N. COMB.
- PERTINAX (Hull), 1950a:67 (*Volucella*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull.
- PERUVIANUM (Vimmer & Soukup), 1938:28 (*Volucella*). Type-locality: Peru, Puno. Distr. — same. Type ♂ NMPP\*. N. COMB.
- PICA (Schiner), 1868:355 (*Phalocromyia*). Type-locality: Colombia. Distr. — Mexico (Veracruz), Colombia, Venezuela. Types ♂ ♀ VMNH. N. COMB.
- pictum* Schiner, 1868:pl. 4:6a + b (habitus) (*Phalacromyia*; preocc. Wiedemann, 1830), incorrect original spelling of *pica*.
- PICTOIDES (Hull), 1941e:280 (*Volucella*). Type-locality: Cuba, Havana. Distr. — same. Type ♀ Hull. N. COMB.

- PICTUM (Wiedemann), 1830:201 (*Volucella*). Type-locality: "Brazil". Distr. — Mexico (Guerrero, Veracruz, Yucatán), Cuba, Panama, Brazil (Mato Grosso, Santa Catarina), Argentina (Tucumán). Types ♂ ♀ VMNH. Ref. — Curran, 1925a:206, pl. 10:145 (male genitalia); Doesburg, 1966:96, fig. 66 (habitus). N. COMB.
- PICTURATUM (Lynch Arribáizaga), 1892b:184 (1892c:135) (*Volucella*). Type-locality: Argentina, Misiones, Picada de Paggi. Distr. — same. Types ♀ MACN. N. COMB.
- PINKUSI (Curran), 1938:1 (*Volucella*). Type-locality: Trinidad, St. Anne. Distr. — same. Type ♂ AMNH\*. N. COMB.
- PLACIVUM (Hull), 1943d:30 (*Volucella*). Type-locality: Ecuador, Santa Inez. Distr. — same. Type ♀ BM(NH). N. COMB.
- PLAUMANNI (Curran), 1939b:4 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Salta). Type ♂ AMNS\*. N. COMB.
- PLORANS (Rondani), 1848:65 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♂ MIZUN. N. COMB.
- polorans*, Williston, 1886:317, misspelling.
- POSTICUM (Say), 1830:166 (*Volucella*). Type-locality: "Mexico". Distr. — U.S.A. (California to Colorado), south to Mexico. Type ♂ lost. N. COMB.
- castanea* Bigot, 1875:476 (*Volucella*). Type-locality: Mexico, Oaxaca. Type ♂ OXF\*.
- var. *PALLIDIUS* (Giglio-Tos), 1892c:50 (*Volucella*). Type-locality: Mexico, Tehuacan. Type ♀ UTOR.
- PRASINUS (Schiner), 1868:354 (*Phalacromyia*). Type-locality: "South America". Distr. — same. Types ♂ ♀ VMNH. N. COMB.
- PRESCUTELLARE (Williston), 1888:273 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso), Argentina (Misiones). Types ♂ ♀ AMNH\*. N. COMB.
- PROCTERI (Curran), 1939b:9 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. N. COMB.
- PUBESCENS (Loew), 1861:38 (*Temnocera*). Type-locality: "Cuba". Distr. — same. Type ♀ MCZ? Ref. — Williston, 1887b:148 (redescription). N. COMB.
- PULCHRAPUELLA (Hull), 1943d:33 (*Volucella*). Type-locality: Jamaica, Kingston. Distr. — same. Type ♂ BM(NH). N. COMB.
- PULCHRIPIPES (Bigot), 1875:480 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♂ OXF\*. N. COMB.
- PULCHRUM (Williston), 1891:41 (*Phalacromyia*). Type-locality: Costa Rica, Río Sucio. Distr. — same. Type ♂ ♀ BM(NH). N. COMB.
- PUNCTIFERUM (Bigot), 1875:475 (*Volucella*). Type-locality: "Amazonia". Distr. — Colombia. Type ♂ BM(NH). N. COMB.
- PUNCTIGENA (Hull), 1937a:165, fig. 6 (abdomen) (*Volucella*). Type-locality: Guatemala, Siquinola. Distr. — same. Type ♀ USNM. N. COMB.
- PURPURASCENS (Loew), 1869:31 (1872b:145) (*Temnocera*). Type-locality: "Haiti". Distr. — same. Type ♂ MCZ (lost). Ref. — Williston, 1887b:148 (redescription). N. COMB.
- watsoni* Curran, 1930f:3 (*Volucella*). Type-locality: Haiti, Port-au-Prince. Type ♂ AMNH\*. N. SYN.
- PURPUREUM (Walker), 1849:637 (*Volucella*). Type-locality: Brazil, Pará. Distr. — same. Type ♂ BM(NH). Ref. — Sack, 1921:137 (description), fig. 11d (spiracular horn), 15 (larva). N. COMB.
- PURPURIFERUM (Bigot), 1875:477 (*Volucella*). Type-locality: Mexico, Oaxaca. Distr. — same. Type ♂ OXF\*. N. COMB.



- FUSILLUM (Macquart), 1842:81 (21), pl. 5, figs. 1 (habitus), 1a (head) (*Volucella*). Type-locality: "Cuba". Distr. — U.S.A. (Texas to Florida); Cuba. Type ♀ [Lille?]. Ref. — Williston, 1887b:144 (redescription), pl. 6:3 (wing), 3a (head). N. COMB.
- QUADRATUM (Williston), 1891:46, pl. 1:12 (habitus), 12a (head), 12b (antenna) (*Volucella*). Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — U.S.A. (Arizona), Mexico (Guerrero). Type ♀ BM(NH). N. COMB.
- RAFAELANUM (Townsend), 1897b:28 (*Volucella*). Type-locality: Mexico, Veracruz, Río Nautla, San Rafael. Distr. — same. Type ♀ BM(NH). N. COMB.
- RECTUM (Wulp), 1882:125 (*Temnocera*). Type-locality: "Argentina". Distr. — Argentina (Tucumán, Salta). Types ♂ ♀ lost?. Ref. — Fluke, 1951b:7 (description), figs. 1 (head), 49 (male genitalia). N. COMB.
- RHEA (Hull), 1950c:232 (*Volucella*). Type-locality: Peru, Matucana. Distr. — same. Type ♂ Hull. N. COMB.
- ROBUSTUM (Sack), 1941:109 (1951:105) (*Temnocera*). Type-locality: Peru, Ocana, 2600 m. Distr. — same. Types ♂ ♀ HZM. N. COMB.
- RORAIMA (Curran), 1939b:3 (*Volucella*). Type-locality: Brazil, Mt. Roraima, 6900 ft. Distr. — same. Type ♂ AMNH\*. N. COMB.
- RCSA (Curran), 1939b:7 (*Volucella*). Type-locality: Peru, Middle Río Ucayali. Distr. — same. Type ♂ AMNH\*. N. COMB.
- ROSPIGIOSII (Brèthes), 1920:31 [also 1937:ii] (*Volucella*). Type-locality: Peru, Chanchamayo region. Type ? MACN. N. COMB.
- RUFITARSE Thompson (nom. nov. for *tibiale* Shannon). Distr. — Brazil (Santa Catarina), Argentina (Misiones). NOM. NOV.
- tibiale* Shannon, 1929:575 (*Volucella*; preocc. Macquart, 1846). Type-locality: Argentina, Misiones. Type ♀ MACN.
- RUFOSCUTELLARE (Philippi), 1865:735 (*Phalacromyia*). Type-locality: Chile, prov. Santiago. Distr. — Chile (Aconcagua, Santiago). Type ? MNHNS. N. COMB.
- RURALE (Curran), 1939b:2 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- SALTI Dobrosky, in Curran, 1930d:3. Type-locality: Colombia, Santa Maria. Distr. — same. Type ♂ AMNH\*.
- SAPHIRINUM (Bigot), 1883b:85 (*Volucella*). Type-locality: "Chile". Distr. — Chile (Valparaíso — Curicó). Types ♂ ♀ BM(NH). N. COMB.
- saphirina*, Shannon & Aubertin, 1933:168, emend.
- SAPPHO (Hull), 1949h:34 (*Volucella*). Type-locality: Panama, Canal Zone. Summit. Distr. — Panama. Type ♂ Hull. N. COMB.
- SCHWARZI Curran, 1935:4. Type-locality: "Venezuela, Curaçao". Distr. — same. Type ♀ AMNH\*. N. COMB.
- SCINTILANS (Hull), 1949f:39 (*Volucella*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull. N. COMB.
- SCUTELLATUM (Macquart), 1842:85 (25), pl. 6, figs. 2 (habitus), 2a (head), 2b (scutellum) (*Volucella*). Type-locality: "Chile". Distr. — Brazil (Mato Grosso), Peru (Lima), Chile (Tarapacá — Santiago). Type ♀ MNHN\*. Ref. — Fluke, 1951b:4 (redescription), figs. 18 (wing tip), 21 (scutellum), 36 (antenna), 47 (male genitalia). N. COMB.
- andicolum* Bigot, 1884a:548 (*Temnocera*). Type-locality: "Chile". Type ♂ BM(NH).
- SELECTUM (Curran), 1939b:15 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.

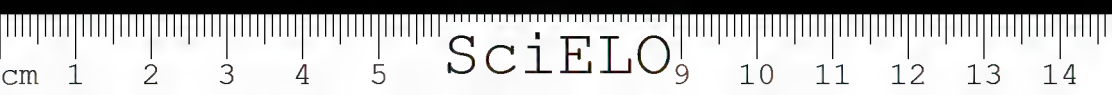


- SEPIA (Hull), 1943d:25 (*Volucella*). Type-locality: "Central America". Distr. — same. Type ♂ BM(NH). N. COMB.
- SHANNONI Thompson (nom. nov. for *salti* Curran). Distr. — Colombia. NOM. NOV.
- salti* Curran, 1930d:12 (*Volucella*; preocc. Dobrosky, 1930). Type-locality: Colombia, Río Frio, Magdalena. Type ♂ AMNH\*.
- SICA (Curran), 1953:9 (*Volucella*). Type-locality: Ecuador, Tungurahua, Baños. Distr. — same. Type ♂ AMNH\*. N. COMB.
- SIMILE (Giglio-Tos), 1892c:2. Type-locality: Mexico, Tehuacán & Mezquillán. Distr. — U.S.A. (Arizona, New Mexico), Mexico. Types ♂ ♀ UTOR\*.
- parvum* Giglio-Tos, 1892c2 (preocc. Rondani, 1848). Type-locality: Mexico, Tehuacán. Types ♂ ♀ UTOR [not found — JRV].
- SMITHAE (Thompson), 1965:61 (*Lepidosis*). Type-locality: Argentina, La Rioja, Mascasin. Distr. — Argentina (La Rioja). Type ♂ Thompson\*. N. COMB.
- SOROR (Bigot), 1883b:83 (*Phalacromyia*). Type-locality: Argentina, Buenos Aires. Distr. — same. Type ♀ (BM(NH)). N. COMB.
- SOUKUPII (Vimmer & Soukup), 1938:29 (*Volucella*). Type-locality: Peru, Puno. Distr. — same. Type ♂ NMPP\*. N. COMB.
- SPECTRALE (Hull), 1942h:21 (*Volucella*). Type-locality: "Brazil". Distr. — same. Type ♀ Hull. N. COMB.
- SPINIGERUM (Wiedemann), 1830:197 (*Volucella*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay, Argentina (Tucumán, Buenos Aires, Santa Fé, Salta, Chaco, Formosa, Córdoba). Types ♂ ♀ VMNH & AMNH\*. Ref. — Shannon & Aubertin, 1933:170, fig. 35b (head); Fluke, 1951b:18 (redescription), figs. 11 (head), 20 (wing tip), 31 (scutellum), 42 (antenna), 58 (male genitalia). N. COMB.
- fulvicorne* Bigot, 1884a:547 (*Temnocera*?; preocc. Bigot, 1883). Type-locality: Argentina, Buenos Aires. Types ♂ ♀ BM(NH).
- SPINITHORAX (Lynch Arribáizaga), 1892b:190 (1892c:141) (*Temnocera*). Type-locality: Argentina, Chaco, Colonia Azara. Distr. — Brazil (São Paulo, Santa Catarina, Paraná), Paraguay, Argentina. Type ♀ MACN. Ref. — Fluke, 1951b:20 (redescription), figs. 33 (scutellum), 59 (male genitalia). N. COMB.
- var. NOVUM (Fluke), 1951b:22 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♀ AMNH.
- SPLENDENS (Townsend), 1897b:29 (*Volucella*; as var. of *opalina*). Type-locality: Mexico, Veracruz, Río Nautla, San Rafael. Distr. — same. Types ♀ BM(NH). N. COMB.
- var. TOWNSENDI (Goot), 1964:214 (nom. nov. for *opalina* Townsend). Distr. — Mexico (Vera Cruz).
- opalina* Townsend, 1897b:29 (*Volucella*; preocc. Wiedemann, 1830). Type-locality: Mexico, Veracruz, Río Nautla, San Rafael. Types ♂ ♀ BM(NH).
- SQUAMIGERUM (Curran), 1925c:348 (*Volucella*). Type-locality: Peru, Río Pichis, Puerto Bermúdez. Distr. — same. Type ♂ CU. N. COMB.
- STERNALE (Curran), 1930d:20 (*Volucella*). Type-locality: Mexico, Baja California Sur, San José del Cabo. Distr. — U.S.A. (Arizona), Mexico (Baja California Sur). Type ♂ AMNH\*. N. COMB.
- STIGMATUM (Hull), 1949f:37 (*Volucella*). Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull. N. COMB.
- SUBCOERULEUM (Rondani), 1863:3 (*Phalacromyia*). Type-locality: "America meridionalis". Distr. — same. Type ♂ MIZUN. N. COMB.
- SUBLATUM (Fluke), 1950b:451, figs. 17 (head), 18 (male genitalia) (*Volu-*

- cella*). Type-locality: Chile, Arica, Putre, 3650 m. Distr. — Argentina (Jujuy), Chile (Tarapacá). Type ♂ UCSC. N. COMB.
- SUBMETALLICUM (Rondani), 1848:67 (*Phalacromyia*). Type-locality: "Brazil". Distr. — same. Type ♀ MIZUN. N. COMB.
- SUBROSTRATUM (Rondani), 1848:68 (*Phalacromyia*). Type-locality: "Brazil". Distr. — Brazil, Mexico? Type ♂ MIZUN. N. COMB.
- ?*triste* Bigot, 1875:482 (*Volucella*). Type-locality: "Mexico". Type ♀ OXF\*.
- ?*melanorhina* Bigot, 1883b:86 (*Phalacromyia*). Type-locality: "Mexico". Type ♀ BM(NH).
- SULTZI (Curran), 1939b:7 (*Volucella*). Type-locality: Brazil, São Paulo, Alto da Serra (=Paranapiacaba). Distr. — same. Type ♂ AMNH\*. N. COMB.
- TAMAULIPANUM (Townsend), 1898b:51 (*Volucella*). Type-locality: U.S.A., Texas, near Brownsville. Distr. — U.S.A. (Texas, Louisiana), south to Mexico (Yucatán); Hawaii [immigrant]. Types ♂ ♀ BM(NH). N. COMB.
- timberlakei* Curran, 1926a:63 (*Volucella*). Type-locality: U.S.A., Texas. Type ♂ CNC\*.
- femina* Curran, 1930f:4 (*Volucella*). Type-locality: Mexico, Yucatán, Chichén Itzá. Type ♀ AMNH\*.
- TATEI (Curran), 1930d:21 (*Volucella*). Type-locality: Venezuela, Mt. Duida. Distr. — same. Type ♀ AMNH\*. N. COMB.
- TAU (Bigot), 1883b:84 (*Volucella*). Type-locality: "Mexico". Distr. — U.S.A. (Oregon to Colorado), south to Mexico. Type ♀ BM(NH). Ref. — Williston, 1887b:143 (redescription), pl. 6:13 (antenna). N. COMB.
- TEFFERA (Curran), 1939b:9 (*Volucella*). Type-locality: Brazil, Amazonas, Tefé. Distr. — same. Type ♀ AMNH\*. N. COMB.
- TIBIALE (Macquart), 1846:251 (123) (*Volucella*). Type-locality: Mexico, Yucatán, Merida. Distr. — same. Type ♀ MNHN? [not found — JRV]. N. COMB.
- TRICINCTUM (Bigot), 1875:477 (*Volucella*). Type-locality: Mexico, Oaxaca. Distr. — U.S.A. (Texas), Mexico, Honduras, Guatemala, Costa Rica, Brazil, Argentina (Tucumán, Salta, Misiones); Hawaii [immigrant]. Type ♀ OXF\*. N. COMB.
- hoya* Curran, 1947b:1 (*Volucella*). Type-locality: Hawaii, Oahu, Honolulu. Type ♂ AMNH\*.
- TRIFASCIUM (Walker), 1857:154 (*Temnocera*). Type-locality: "Valley of Amazon". Distr. — same. Type ? BM(NH). N. COMB.
- TRIGONUM (Giglio-Tos), 1892c:3 (*Volucella*). Type-locality: Mexico, Orizaba. Distr. — same. Types ♂ UTOR. N. COMB.
- TRIPUNCTATUM (Hull), 1949f:31 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ Hull. N. COMB.
- TRITUBERCULATUM Thompson (nom. nov. for *scutellatum* Williston). Distr. — Brazil, Argentina (Misiones). NOM. NOV.
- scutellatum* Williston, 1888:277 (*Apophysophora*; preocc. Macquart, 1842). Type-locality: Brazil, Mato Grosso, Chapada. Types ♂ ♀ AMNH\*.
- TUMICEPHALUM (Hull), 1943d:35 (*Volucella*). Type-locality: "Peru". Distr. — same. Type ♂ BM(NH). N. COMB.
- TYMPANITIS (Fabricius), 1805:226 (*Syrphus*). Type-locality: "America meridionali". Distr. — Mexico, Guatemala, Costa Rica, Panama, Venezuela, Peru, Brazil. Types ♂ ♀ MC\*. N. COMB.
- ardua* Wiedemann, 1830:204 (*Volucella*). Type-locality: Surinam. Types ♀ ZMB & VMNH.

- ULRICA (Hull), 1950a:68 (*Volucella*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull. N. COMB.
- UNICOLOR (Curran), 1925c:347 (*Volucella*). Type-locality: Venezuela, C. Bolivar. Distr. — same. Type ♂ MCZ. N. COMB.
- UNILECTUM (Walker), 1860:292 (*Temnocera*). Type-locality: "Mexico". Distr. — same. Type ♀ BM(NH). N. COMB.
- UNIPUNTATUM (Curran), 1926a:63 (*Volucella*). Type-locality: West Indies, Desecheo† Island. Distr. — U.S.A. (Texas? [Wirth et al., 1965: 602]); Puerto Rico. Type ♂ AMNH\*. N. COMB.
- VACUM (Fabricius), 1775:763 (*Syrphus*). Type-locality: "America". Distr. — Jamaica. Type ? ?. Ref. — Townsend, 1895a:46 (redescription). N. COMB.
- VAGOIDES (Curran), 1927c:86 (*Volucella*). Type-locality: Costa Rica, San José. Distr. — Guatemala, Costa Rica. Type ♀ UK [Byers, et al., 1962]. N. COMB.
- VAGUM (Wiedemann), 1830:205 (*Volucella*). Type-locality: "Brazil". Distr. — Mexico, Guyana, Peru, Brazil (Mato Grosso). Types ♂ VMNH & SMF\*. N. COMB.
- viridula* Bigot, 1875:481 (*Volucella*; preocc. Walker, 1860). Type-locality: "Mexico". Type ♀ OXF\*.
- musta* Williston, 1888:274 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada. Types ♂ AMNH\*.
- VALERIA (Hull), 1944j:48 (*Volucella*). Type-locality: Peru, El Campamiento. Distr. — same. Type ♀ CU. N. COMB.
- VAMPYRUM (Hull), 1942g:96 (*Volucella*). Type-locality: Brazil, Paraná, Paranaguá. Distr. — same. Type ♀ MCZ\*. N. COMB.
- VARIANS (Bigot), 1875:481 (*Volucella*). Type-locality: "Mexico". Distr. — same. Type ♀ OXF\*. N. COMB.
- VARICHAETUM (Curran), 1925b:250 (*Phalacromyia*). Type-locality: Peru, Río Pichis, Puerto Bermúdez. Distr. — same. Type ♂ CU. N. COMB.
- VARIEGATUM (Bigot), 1875:478 (*Volucella*). Type-locality: "Mexico". Distr. — Mexico, Guatemala. Types ♂ ♀ OXF\*. N. COMB.
- comastes* Williston, 1891:52 (*Volucella*). Type-locality: Mexico, Orizaba. Types ♀ BM(NH).
- VENTANA (Fluke), 1951b:9, figs. 4 (head), 23 (scutellum), 37 (antenna), 50 (male genitalia) (*Volucella*). Type-locality: Argentina, Buenos Aires, Tornquist, Cerro de la Ventana. Distr. — same. Type ♂ IML. N. COMB.
- VERA (Hull), 1942g:95 (*Volucella*). Type-locality: Honduras, Lancetilla. Distr. — same. Type ♀ MCZ\*. N. COMB.
- VERDIGASTER (Hull), 1943k:41 (*Volucella*). Type-locality: Colombia, Bogotá. Distr. — same. Type ♂ USNM. N. COMB.
- VICINUM (Bigot), 1883b:86 (*Phalachromyia*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH). N. COMB.
- VIERECKI (Curran), 1925b:250 (*Volucella*). Type-locality: Colombia, Vista Nieve. Distr. — same. Type ♀ AMNH\*. N. COMB.
- VILLARICA (Fluke), 1951b:23, figs. 12 (head), 62 (male genitalia) (*Volucella*). Type-locality: Paraguay, Villarica. Distr. — Brazil (São Paulo), Paraguay. Type ♀ AMNH\*. N. COMB.
- VIOLA (Hull), 1944k:514 (*Volucella*). Type-locality: "Brazil". Distr. — Brazil (São Paulo). Type ♀ Hull. N. COMB.
- VIRESCENS (Williston), 1891:42 (*Phalacromyia*). Type-locality: Guatemala, El Tumbador, 2500 ft. Distr. — same. Type ♀ BM(NH). N. COMB.
- VIRIDANA (Townsend), 1897b:30 (*Volucella*). Type-locality: Mexico, Vera-

- cruz, Río Nautla, San Rafael, Distr. — same. Type ♂ BM(NH). N. COMB.
- VIRIDE (Williston), 1888:275 (*Volucella*). Type-locality: Brazil, Mato Grosso, Chapada, Distr. — Peru, Brazil (Mato Grosso). Types ♂ ♀ AMNH\*. N. COMB.
- VIRIDIGASTER (Hull), 1943k:41 (*Volucella*). Type-locality: Ecuador, Distr. — same. Type ♂ USNM. N. COMB.
- VIRIDULA (Walker), 1860:292 (*Temnocera*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH). N. COMB.
- VIRTUOSA (Hull), 1942g:95 (*Volucella*). Type-locality: Paraguay, Villarrica, Distr. — same. Type ♀ MCZ\*. N. COMB.
- VITREA (Hull), 1949h:36 (*Volucella*). Type-locality: Peru, Pucallpa, Distr. — same. Type ♀ Hull. N. COMB.
- VITRIPENNE (Curran), 1930d:9, 1934b:387 (*Volucella*). Type-locality: Guyana, Kartabo, Distr. — same. Type ♀ AMNH\*. N. COMB.
- VITTATUM Thompson (nom. nov. for *americanum* Goot). Distr. — Canada (Alberta), east to U.S.A. (New York); south to Mexico. Ref. — Williston, 1887b:145 (redescription), pl. 6:4 (wing); Curran, 1925a:206, pl. 10:140 (male genitalia). NOM. NOV.
- fasciatum* Macquart, 1842:82 (22), pl. 5, fig. 2 (habitus) (*Volucella*; preocc. Herrich-Schaeffer, 1829). Type-locality: U.S.A., "Carolina". Type ♀ MNHN\*.
- americanum* Goot, 1964:214 (*Volucella*; nom. nov. for *fasciatum* Macquart, but preocc. Johnson, 1916).
- VITTIFACIUM (Hull), 1943d:18 (*Volucella*). Type-locality: Brazil, Amazon, Distr. — same. Type ♀ BM(NH). N. COMB.
- VOLUCELLOIDES (Bigot), 1884a:548 (*Glaurotricha*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH). N. COMB.
- VOLUCRE (Giglio-Tos), 1892c:4 (*Volucella*). Type-locality: Mexico, Orizaba, Distr. — Mexico (San Luis Potosí, Veracruz). Type ♂ UTOR. N. COMB.
- VULCAN (Hull), 1942g:93 (*Volucella*). Type-locality: Brazil, Santa Catarina, Joinville, Distr. — same. Type ♀ MCZ. N. COMB.
- VULTA (Fluke), 1951b:6 figs. 17 (head), 22 (scutellum), 39 (antenna), 53 (male genitalia) (*Volucella*). Type-locality: Argentina, Salta, Cafayate, Distr. — Peru (Lima), Argentina (Tucumán, Salta). Type ♂ IML. N. COMB.
- WILLINKI (Fluke), 1951b:10, figs. 2 (head), 24 (scutellum), 54 (male genitalia) (*Volucella*). Type-locality: Argentina, Tucumán, Siambón, Distr. — Argentina (Tucumán, Buenos Aires). Type ♂ IML. N. COMB.
- WULPI (Goot), 1964:214 (*Volucella*; nom. nov. for *testaceum* Wulp). Distr. — Venezuela. N. COMB.
- testaceum* Wulp, 1891:203 (*Volucella*; preocc. Rondani, 1848). Type-locality: "Venezuela, Curaçao". Types ♂ ♀ ML? [not found — JRV].
- XIPE (Hull), 1942g:97 (*Volucella*). Type-locality: Panama, Chilibre, Distr. — same. Type ♀ AMNH\*. N. COMB.
- YURA (Curran), 1930d:22 (*Volucella*). Type-locality: Peru, Yura, Distr. — same. Type ♀ AMNH\*. N. COMB.
- ZEPHYRA (Curran), 1939b:5 (*Volucella*). Type-locality: Brazil, Santa Catarina, Nova Teutônia, Distr. — same. Type ♂ AMNH\*. N. COMB.





### Tribe CALLICERINI

#### Genus CALLICERA Panzer

- CALLICERA Panzer, 1809:17. Type-species, *Bibio aeneus* Fabricius (mon.).  
Ref. — Curran, 1935 (key).  
POULTONI Verrall, 1913:332. Type-locality: "Mexico". Distr. — same.  
Type ♀ BM(NH).

#### Genus NOTIOCHEILOSLA Thompson

- NOTIOCHEILOSLA Thompson, 1972:112. Type-species, *Chilosia nitescens*  
Shannon & Aubertin (orig. des.).  
NITESCENS (Shannon & Aubertin), 1933:143 (*Chilosia*). Type-locality:  
Chile, Ensenada. Distr. — Chile (Santiago-Malleco), Argentina  
(Patagonia). Type ♂ USNM\*.

### Tribe SERYCOMYIINI

#### Genus ARCTOPHILA Schiner

- ARCTOPHILA Schiner, 1860:215. Type-species, *Syrphus bombiformis* Fallén  
(Williston, 1887:158).  
Tapetomyia Fluke, 1939:370. Type-species, *meyeri* Fluke (orig. des.).  
N. SYN.  
MEYERI (Fluke), 1939:370, figs. 8 (head), 9 (wing tip), 10 (hind leg)  
(*Tapetomyia*). Type-locality: Mexico, Mexico City, 10,000 ft.  
Distr. — same. Type ♂ AMNH\*. N. COMB.

### Tribe CHRYSOGASTERINI

#### Genus LEPIDOMYIA Loew

- LEPIDOMYIA Loew, 1864a:69 (1864b:231). Type-species, *calopus* Loew (mon.).  
*Lepidostola* Mik, 1886:278 (unjustified nom. nov. for *Lepidomyia* Loew).  
*Lepromyia* Williston, 1887:31 (unjustified nom. nov. for *Lepidomyia*  
Loew).  
Ref. — Hull, 1946b (rev., key).  
ABDOMINALIS (Williston), 1888:262 (*Lepidostola*). Type-locality: Brazil,  
Mato Grosso, Chapada. Distr. — Brazil. Type ♀ AMNH\*.  
BRETHESI (Shannon), 1928a:573 (*Lepidostola*). Type-locality: Bolivia,  
"Prov. Sara". Distr. — Bolivia (El Beni). Type ♂ MACN.  
CALOPUS Loew, 1864a:69 (1864b:231). Type-locality: "Cuba". Distr. — same.  
Type ♀ MCZ [lost]\*. Ref. — Hull, 1946b:9 (redescription), figs.  
2 & 11 (head), 18 (wing), 27 (mesonotum), 37 (abdomen).  
COLOMBIA (Curran), 1929:495 (*Lepidostola*). Type-locality: Colombia, Río  
Frio, Magdalena. Distr. — same. Type ♀ AMNH.  
CREPUSCUSTELLATA (Hull) 1946b:4, figs. 3 (head), 16 (wing), 19 (meso-  
notum), 28 (abdomen) (*Lepidostola*). Type-locality: Brazil, San-  
ta Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.  
DIONYSIANA (d'Andretta & Carrera), 1952:300, figs. 4 & 5 (middle & hind  
legs), 6 (wing), 7 (mesonotum), 8 (abdomen) (*Lepidostola*).  
Type-locality: Brazil, Acre. Distr. — same. Type ♀ MZUSP\*.  
JENNINGSI (Shannon), 1925a:108 (*Lepidostola*). Type-locality: Panama,  
Canal Zone. Distr. — Panama, Brazil (Santa Catarina). Type ♂

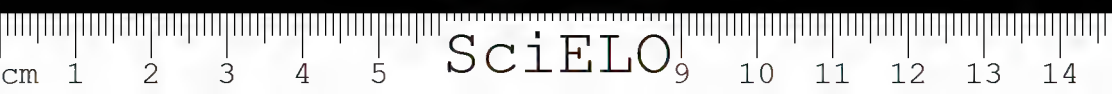
- USNM\*. Ref. — Hull, 1946b:12 (redescription), figs. 6, 10 (head), 21 (mesonotum), 35 (abdomen).
- ORTALINA Wulp, 1888:374. Type-locality: Argentina, Córdoba. Distr. — Brazil (Mato Grosso), Argentina (Tucumán, Córdoba, Buenos Aires). Type ♀ lost?. Ref. — Hull, 1946b:8 (redescription), figs. 7 (head), 14 (wing), 25 (mesonotum), 30 (abdomen).
- var. LACTIVA (Hull), 1946b:9 (*Lepidostola*). Type-locality: Brazil, Mato Grosso, Chapada. Type ? AMNH\*.
- PERPOLITA (Johnson), 1921:56 (*Lepidostola*). Type-locality: "Mexico". Distr. — same. Type ♂ MCZ.
- PULCHRA (Williston), 1888:261 (*Lepidostola*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso, Acre). Types ♂ ♀ AMNH.
- SIMILIS (Williston), 1888:262 (*Lepidostola*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Peru (Madre de Dios), Brazil (Mato Grosso, Santa Catarina, São Paulo). Type ♀ AMNH. Ref. — Hull, 1946b:5 (description of male), figs. 1 (head), 15 (wing), 26 (mesonotum), 29 (abdomen).
- STELLATA (Hull), 1941a:1 (*Lepidostola*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♀ AMNH. Ref. — Hull, 1946b: 12, figs. 8 (head), 13 (wing), 24 (mesonotum), 33 (abdomen).
- TRILINEATA (Hull), 1941a:2 (*Lepidostola*). Type-locality: Brazil, Mato Grosso, Poxoréu, Coronel Ponce. Distr. — Peru (Madre de Dios), Brazil (Mato Grosso). Type ♂ AMNH. Ref. — Hull, 1946b:12, figs. 5 & 9 (head), 27 (mesonotum), 36 (abdomen).
- VULTURELLA (Hull), 1946b:7, figs. 4 (head), 17 (wing), 23 (mesonotum), 34 (abdomen) (*Lepidostola*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Argentina (Tucumán). Type ♂ AMNH.

#### Genus MYOLEPTA Newman

- MYOLEPTA Newman, 1838:373. Type-species, *Musca luteola* Gmelin (mon.). *Myiolepta*, emendation.
- Xylotaaja* Rondani, 1845:457. Type-species, *Syrphus vara* Panzer (orig. des.).
- Eumyiolepta* Shannon, 1921:71. Type-species, *Myolepta strigilata* Loew (orig. des.).
- Sarolepta* Hull, 1941i:436. Type-species, *dolorosa* Hull (orig. des.). Ref. — Fluke & Weems, 1956 (rev., keys).

#### Subgenus MYOLEPTA Newman

- AURICAUDATA Williston, 1891:40, pl. 1:11 (habitus), 11a (head), 11b (hind leg). Type-locality: Mexico, Guerrero, Xucumanatlán; Morelos, Cuernavaca. Distr. — U.S.A. (Arizona); Mexico (Guerrero, Morelos). Type ♂ ♀ BM(NH). Ref. — Fluke & Weems, 1956:11 (redescription), figs. 6 (mesonotum), 15 (antenna).
- DOLOROSA (Hull), 1941i:436 (*Sarolepta*). Type-locality: "Venezuela". Distr. — same. Type ♀ VMNH.
- GREENI Hull, 1941i:435. Type-locality: Argentina, Tucumán, Villa Nougés. Distr. — same. Type ♀ USNM. Ref. — Fluke & Weems, 1956:10 (redescription), figs. 12 (antenna), 29 (male genitalia).
- schreiteri* Blanchard, in Fluke & Weems, 1956:11. *Nomen nudum*.



- HAEMORRHOIDALIS (Philippi), 1865:740 (*Priomerus?*). Type-locality: Chile, Santiago. Distr. — Chile, Argentina (Neuquén). Type ? MNHNS. Ref. — Fluke & Weems, 1956:8 (redescription), fig. 9 (antenna).
- LUCTUOSA (Bigot), 1857a:296, pl. 7:7 (wing, head, antenna) (*Helophilus*). Type-locality: "Chile". Distr. — same. Type ♂ BM(NH). Ref. — Fluke & Weems, 1956:7 (description), fig. 13 (antenna).
- luctuosa* Philippi, 1865:739 (*Priomerus?*; preocc. Bigot, 1857). Type-locality: Chile. Type ? MNHNS.
- NAUSICAA (Hull), 1937a:172, fig. 3 (mesonotum) (*Nausigaster*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay, Argentina (Formosa), Chile (Santiago). Type ♀ USNM\*. N. COMB.
- apicalis* Fluke, in Fluke & Weems, 1956:9, figs. 3 (head), 5 (thorax & abdomen), 10 (antenna), 27 (male genitalia). Type-locality: Argentina, Formosa, Juarez, Ingenio. Type ♂ IML. N. SYN.

#### Subgenus PROTOLEPIDOSTOLA Hull

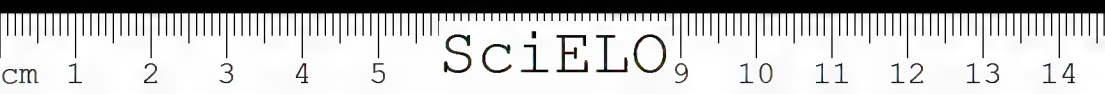
- PROTOLEPIDOSTOLA Hull, 1949d:333 (as genus). Type-species, *Lepidostola scintillans* Hull (orig. des.).
- BRAZILIANA (Shannon), 1927a:14 (*Eumyiolepta*). Type-locality: Brazil, Teresópolis. Distr. — same. Type ♂ BM(NH).
- ?CIRCULARIS (Hull), 1941i:434 (*Eumyiolepta*). Type-locality: Argentina, Tucumán, Villa Nougés. Distr. — same. Type ♀ USNM. Ref. — Fluke & Weems, 1956:12 (description), figs. 11 (antenna), 30 (male genitalia).
- EVANSI Thompson, 1968:276. Type-locality: Mexico, Guerrero, 16 km east of Chilpancingo, 4700 ft. Distr. — same. Type ♀ MCZ\*.
- MINUTA Fluke, in Fluke & Weems, 1956:16, figs. 17 (wing tip), 32 (male genitalia). Type-locality: Argentina, Tucumán, Tafi, Locavera. Distr. — same. Type ♂ IML.
- PROBLEMATICA Thompson, 1968:275, figs. 2, 2a & 2b (head). Type-locality: Panama, Canal Zone, Barro Colorado. Distr. — same. Type ♀ MCZ\*.
- SCINTILLANS (Hull), 1946b:3, figs. 12 (head), 20 (mesonotum), 31 (abdomen) (*Lepidostola*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.

#### Genus CHROMOCHEILOSIA Hull & Fluke

- Cheilisia*, subg. CHROMOCHEILOSIA Hull & Fluke, 1950:306. Type-species, *Chilosia bicolor* Shannon & Aubertin (orig. des.). Ref. — Shannon & Aubertin, 1933:141 (key).
- BICOLOR (Shannon & Aubertin), 1933:141, fig. 27a (head) (*Chilosia*). Type-locality: Chile, Casa Pangue. Distr. — same. Type ♂ BM(NH).
- INCERTA (Shannon & Aubertin), 1933:142, fig. 27b (head) (*Chilosia*). Type-locality: Chile, Casa Pangue. Distr. — Chile. Type ♀ USNM\*.
- PUBESCENS (Shannon & Aubertin), 1933:142 (*Chilosia*). Type-locality: Chile, Casa Pangue. Distr. — Chile, Argentina (Neuquén). Type ♂ BM(NH).

#### Genus ORTHONEVRA Macquart

- ORTHONEVRA Macquart, 1829:188 (40). Type-species, *Chrysogaster elegans* Meigen (mon.).
- Orthoneura*, emendation.



- Cryptineura* Bigot, 1859:308. Type-species, *hieroglyphica* Bigot (mon.)  
= *nitida* Wiedemann.
- Chrysogaster* authors (part).  
Ref. — Sedman, 1964 & 1966 (rev., keys).
- ?ANNULIFERA Bigot, 1884a:556. Type-locality: "Brazil". Distr. — same.  
Type ♀ OXF.
- ARGENTINA (Brèthes), 1922:141 (*Chrysogaster*). Type-locality: Argentina,  
Buenos Aires, Sierra de la Ventana. Distr. — same. Type ♂  
MACN. N. COMB.
- BELLULA (Williston), 1882:304 (*Chrysogaster*). Type-locality: U.S.A.,  
Washington Territory, California. Distr. — Western U.S.A.;  
?Mexico (Durango, Michoacán) [Williston, 1891:7]. Types ♂ ♀  
USNM\*. Ref. — Sedman, 1964:170 (description), figs. 4 (eye  
markings), 11 (mesonotum), 16 (wing). N. COMB.
- FLUKEI (Sedman), 1964:173, figs. 3 (male genitalia), 8 (eye markings),  
10 (mesonotum), 12 (wing) (*Chrysogaster*). Type-locality: U.S.A.,  
Arizona, Chochise Co., 17 mi. east of Douglas. Distr. — U.S.A.  
(California to Nevada), south to Mexico (Baja California & Chia-  
pas). Type ♂ UCD\*. N. COMB.
- GEWGAW (Hull), 1941g:152, fig. 11 (wing) (*Chrysogaster*). Type-locality:  
Cuba, Soledad. Distr. — same. Type ♂ MCZ\*. N. COMB.
- LABYRINTHOPS (Hull), 1944j:44 (*Chrysogaster*). Type-locality: Argentina,  
Mendoza, Potrerillos, 4000 ft. Type ♂ CU. N. COMB.
- ?LUGUBRIS (Jaenicke), 1867:404 (*Chrysogaster*). Type-locality: Chile.  
Distr. — same. Type ♀ SMF. N. COMB.
- NEOTROPICA (Shannon), 1925a:107 (*Chrysogaster*). Type-locality: Paraguay,  
San Bernardino. Distr. — same. Type ♀ USNM. N. COMB.
- nitida* (Wiedemann) not neotropical [Sedman, 1964:176].
- QUADRISTRIATA (Shannon & Aubertin), 1933:140 (*Chrysogaster*). Type-loca-  
lity: Argentina, Neuquén. Type ♂ USNM. N. COMB.
- SHANNONI (Curran), 1925a:119 (*Chrysogaster*). Type-locality: Costa Rica,  
San Mateo, Huigito. Distr. — same. Type ♂ USNM. N. COMB.

#### Genus CACOCERIA Hull

- Cacomylia* Hull, 1930:147 (preocc. Coquillett, 1906). Type-species, *cressoni*  
Hull (orig. des.).
- CACOCERIA Hull, 1936a:227 (nom. nov. for *cacomylia* Hull).
- CRESSONI (Hull), 1930:147, pl. 9:1 (mesonotum), 3 (hind leg), 4 (head)  
(*Cacomylia*). Type-locality: "Mexico". Distr. — same. Type ♀  
ANSP.
- WILLISTONI Hull, 1949i:225. Type-locality: Peru, Chanchamayo. Distr. —  
Peru, Argentina (Tucumán). Type ♂ Hull.

#### Genus CHAMAESPHEGINA Shannon & Aubertin

- CHAMAESPHEGINA Shannon & Aubertin, 1933:145. Type-species, *argenti-  
facies* Shannon & Aubertin (orig. des.)
- Desmetrum* Enderlein, 1938:193. Type-species, *macrum* Enderlein (orig.  
des.).
- ARGENTIFACIES Shannon & Aubertin, 1933:145, figs. 28 (head), 29 (wing).  
Type-locality: Argentina, Ensenada. Distr. — Argentina, Chile  
(Arauco, Aysén, Curicó, Malleco). Type ♀ BM(NH).
- MACRA (Enderlein), 1938:194 (*Desmetrum*). Type-locality: Middle Chile,  
"Comudes". Distr. — same. Type ♂ ZMB.





## Genus BRACHYOPA Meigen

BRACHYOPA Meigen, 1822:260. Type-species, *Musca conica* Panzer (Westwood, 1840:137) = *panzeri* Goffe.  
*Unnamed* sp. — Mexico (Mexico).

## Tribe EUMERINI

### Genus EUMERUS Meigen

EUMERUS Meigen, 1822:202. Type-species, *Syrphus tricolor* Fabricius (Curtis, 1839:pl. 749). Ref. — Latta & Cole, 1933 (rev., key).  
TUBERCULATUS Rondani, 1857:93. Type-locality: "Italy". Distr. — Europe, Canada, U.S.A.; Colombia (Magdalena). Types ♂ ♀ MZUF\*. Ref. — Collin, 1920:103 (redescription), figs. 1 (4th sternum of male), 3 (hind leg), 4-6 (male genitalia).

### Genus ALIPUMILIO Shannon

ALIPUMILIO Shannon, 1927a:12. Type-species, *femoratus* Shannon (orig. des.). Ref. — Vockeroth, 1964 (key).  
AVISPAS Vockeroth, 1964:924, fig. 3 (wing tip). Type-locality: Peru, Madre de Dios, Avispas, 400 m. Distr. — same. Type ♀ CNC\*.  
FEMORATUS Shannon, 1927a:12, figs. 1 (wing), 2 (head), 3 (head). Type-locality: "Amazon". Distr. — same. Type ♀ BM(NH)\*. Ref. — Hull, 1949d:336, figs. 16a (habitus), 16b (hind leg), 16c,d (head).  
NIGROCOERULEUS Vockeroth, 1964:924, fig. 2 (wing tip). Type-locality: Mexico, Morelos, Yautepec, Canyon de Lobos, 4000 ft. Distr. — same. Type ♀ CU\*.  
PULLATUS Vockeroth, 1964:923, figs. 1 (wing tip), 4 (head). Type-locality: Peru, Madre de Dios, Avispas, 400 m. Distr. — same. Type ♀ CNC\*.

### Genus NAUSIGASTER Williston

NAUSIGASTER Williston, 1883:33. Type-species, *punctulata* Williston (mon.). Ref. — Curran, 1941 (key); Carrera, Lopes, & Lane, 1947b (biol. immature stages).  
BONARIENSIS Lynch Arribálzaga, 1892d:254 (1892c:155). Type-locality: Argentina, Buenos Aires. Distr. — Argentina, Brazil (north to Mato Grosso & Rio de Janeiro). Type ♀ MACN.  
*shannoni* Carrera, Lopes & Lane, 1947b:481, figs. 28 (wing), 29-38 (male genitalia + abdomen), 39-49 (larva). Type-locality: Brazil, Rio de Janeiro. Type ♂ IOC. N. SYN.  
CHRYSIDIFORMIS Shannon, 1922b:39. Type-locality: Peru, Río Charape. Distr. — same. Type ♀ USNM.  
FLUKEI Curran, 1941:256. Type-locality: Paraguay, Villarica. Distr. — Brazil (São Paulo, Paraná), Paraguay. Type ♀ AMNH\*. Ref. — Carrera, et. al., 1947b:478 (description of male), figs. 20 (wing), 21-26 (male genitalia).  
GEMINATA Townsend, 1897d:25. Type-locality: U.S.A., Texas, Beeville & Kenedy. Distr. — U.S.A. (Texas, Arizona), Mexico (Sonora, Durango, Hidalgo). Types ♂ ♀ BM(NH)\* & VMNH\*.  
MERIDIONALIS Townsend, 1897a:20. Type-locality: Mexico, Vera Cruz, San Rafael. Distr. — Mexico (Vera Cruz), ?Brazil (Curran, 1941:255). Type ♀ BM(NH)\*.  
PERUVIENSIS Shannon, 1922a:40. Type-locality: Peru, Santa Eulalia. Distr. — same. Type ♀ USNM.

- PUNCTATA Williston, 1883:34, pl. 2, fig. 15 (habitus). Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (California to Texas); Mexico (Durango), ?Brazil (Williston, 1888:259). Type ♀ USNM.
- TUBERCULATA Carrera, Lopes & Lane, 1947b:480, fig. 27 (wing). Type-locality: Brazil, Paraná, Iguazu. Distr. — Brazil (Paraná, Santa Catarina). Type ♀ IOC.
- UNIMACULATA Townsend, 1897b:24. Type-locality: U.S.A., California. Distr. — U.S.A. (California to Texas); Mexico (Sonora). Types ♂ BM(NH) & USNM.
- VANZOLINII d'Andretta & Carrera, 1952:298, figs. 2 (wing), 3 (abdomen). Type-locality: Brazil, Acre. Distr. — same. Type ♀ MZUSP\*.

### Tribe CERIOIDINI

#### Genus SPHIXIMORPHA Rondani

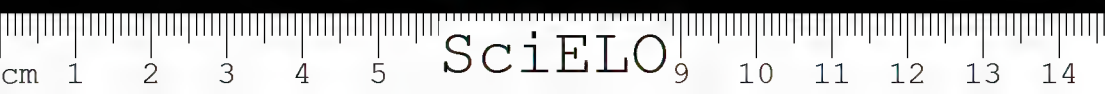
- SPHIXIMORPHA Rondani, 1850c:212. Type-species, *Ceria subsestilis* Illiger (orig. des.)
- Sphiximorpha*, emendation
- Ceriodes* Rondani, 1850c:211 (originally cited in synonymy; validated by Becker, et al., 1907:156). Type-species, *Ceria subsestilis* Illiger (aut.)
- Ceriodes*, misspelling.
- Ceriodes*, subg. *Polistoceria* Hull, 1949d:380. Type-species, *kerteszi* Shannon (orig. des.).
- Ref. — Curran, 1941 (key).
- BARBIPES (Loew), 1853:19 (*Ceria*). Type-locality: Uruguay, Montevideo. Distr. — Brazil (São Paulo, Rio de Janeiro, Mato Grosso, Santa Catarina), Uruguay, Argentina. Type ♂ ZMB. N. COMB.
- acra* Curran, 1941:246 (*Ceriodes*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Type ♂ AMNH\*. N. SYN.
- BIGOTII (Williston), 1888:291 (*Ceria*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (São Paulo, Rio de Janeiro, Mato Grosso). Types ♂ ♀ AMNH\*. N. COMB.
- BOLIVIANA (Kertész), 1903:434 (*Ceria*). Type-locality: Bolivia, Songo. Distr. — same. Type ♀ UNMB [destroyed]. N. COMB.
- BRAUERII (Williston), 1888:289 (*Ceria*). Type-locality: Brazil, Mato Grosso, Chapada; Pará, Santarém. Distr. — Peru, Brazil (Pará, Mato Grosso), Bolivia. Types ♀ AMNH\*. Ref. — Hull, 1949d:267, fig. 4d (abdomen). N. COMB.
- var. PHILIPPI (Shannon), 1925c:63 (*Ceriodes*). Type-locality: Bolivia, Ivon, Beni. Type ♀ USNM.
- FACIALIS (Kertész), 1903:439 (*Ceria*). Type-locality: "Paraguay". Distr. — Brazil (Paraná, Santa Catarina), Paraguay. Type ♂ UNMB [destroyed]. N. COMB.
- FLAVOSIGNATA (Kertész), 1902:89 (*Ceria*). Type-locality: Bolivia, Songo; Peru, Marcapota, 1000 m. Distr. — same. Types ♂ UNMB [destroyed]. N. COMB.
- KERTESZI (Shannon), 1925c:63 (*Ceriodes*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ USNM. N. COMB.
- MEADEI (Williston), 1892:76, pl. 2:12 (habitus), 12a+b (head) (*Ceria*). Type-locality: Mexico, Guerrero, Xucumanatlán, 7000 ft. Distr. — same. Types ♂ BM(NH). N. COMB.
- MIKII (Williston), 1888:288 (*Ceria*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Types ♀ AMNH\*. N. COMB.



- NIGRIPENNIS (Williston), 1887:263 (*Ceria*). Type-locality: Mexico. Distr. — same. Type ♀ MCZ\*. N. COMB.
- PICTA (Kertész), 1902:87 (*Ceria*). Type-locality: Bolivia, Songo; Peru, Callanga. Distr. — same. Types ♂ ♀ UNMB [destroyed]. N. COMB.
- POLISTES (Curran), 1941:246 (*Cerioides*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina), Paraguay. Type ♂ AMNH\*. N. COMB.
- ?POLISTIFORMIS (Hull), 1944:404 (*Cerioides*). Type-locality: Bolivia, Cuesta de Sillunticara, 3000 m. Distr. — same. Type ♀ VMNH. N. COMB.
- PYRRHOCERA (Kertész), 1903:435 (*Ceria*). Type-locality: Bolivia, S. Antonio. Distr. — same. Type ♀ UNMB [destroyed]. N. COMB.
- ROEDERII (Williston), 1888:289 (*Ceria*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Peru, Brazil (Mato Grosso). Type ♂ AMNH\*. N. COMB.
- ?RUBROBRUNNEA (Hull), 1944:403 (*Cerioides*). Type-locality: Colombia, Muzo. Distr. — same. Type ♀ VMNH. N. COMB.
- SACKENII (Williston), 1888:287 (*Ceria*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso), Argentina (Formosa, Tucumán). Types ♂ AMNH\*. N. COMB.
- SHANNONI (Lane & Carrera), 1943:169 (*Cerioides*). Type-locality: Brazil, São Paulo, Juquiá. Distr. — same. Type ♀ MZUSP. N. COMB.
- SIGNIFERA (Loew), 1853:18 (*Ceria*). Type-locality: "Mexico". Distr. — U.S.A. (Minnesota to Massachusetts, south to Florida); Mexico. Type ♀ ZMB? N. COMB.
- SUPERBA (Williston), 1887:264 (*Ceria*). Type-locality: "Mexico". Distr. — same. Type ♂ MCZ\*. N. COMB.
- TRICHOPODA (Kertész), 1903:438 (*Ceria*). Type-locality: Bolivia, Songo. Distr. — same. Type ♂ UNMB [destroyed]. N. COMB.
- VARIABILIS (Kertész), 1903:437 (*Ceria*). Type-locality: Bolivia, Songo. Distr. — Bolivia, Peru. Type ♀ UNMB [destroyed]. N. COMB.
- VICINA (Kertész), 1902:89 (*Ceria*). Type-locality: Peru, Cagon, 1000 m. Distr. — same. Type ♂ UNMB [destroyed]. N. COMB.
- WULPII (Williston), 1888:290 (*Ceria*). Type-locality: Brazil, Mato Grosso, Chapada; Rio de Janeiro. Distr. — Brazil (Rio de Janeiro, São Paulo, Mato Grosso). Types ♂ ♀ AMNH\*. Ref. — Sack, 1921:149, fig. 25 (puparium). N. COMB.

#### Genus MONOCEROMYIA Shannon

- MONOCEROMYIA Shannon, 1922d:41. Type-species, *Ceria tricolor* Loew (mon.).
- BICOLOR (Kertész), 1902:86 (*Ceria*). Type-locality: Peru, Callanga. Distr. — Peru, Bolivia. Type ♀ UNMB [destroyed]. N. COMB.
- CACICA (Walker), 1860:288 (*Ceria*). Type-locality: "Mexico". Distr. — same. Type ♀ BM(NH). N. COMB.
- DAPHNAEUS (Walker), 1849:537 (*Ceria*). Type-locality: "Jamaica". Distr. — same. Type ♀ BM(NH). N. COMB.
- LYNCHII (Williston), 1888:287 (*Ceria*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type AMNH\*. N. COMB.
- TRICOLOR (Loew), 1861:37 (*Ceria*). Type-locality: "Cuba". Distr. — Cuba. Types ♂ ♀ MCZ. Ref. — Hull, 1949d:264, fig. 3b (head).
- VERRALLI (Williston), 1892:75 (*Ceria*). Type-locality: Panama, David. Distr. — same. Type ♂ BM(NH). N. COMB.
- VITTIPES (Curran), 1941:246 (*Cerioides*). Type-locality: Peru, Puerto Bermúdez. Distr. — same. Type ♂ AMNH\*. N. COMB.



# Genus POLYBIOMYIA Shannon

- POLYBIOMYIA Shannon, 1925c:56. Type-species, *schwarzi* Shannon (orig. des.). Ref. — Shannon, 1925c (key), Curran, 1941 (key, in part).
- ARIETIS (Loew), 1853:17 (*Ceria*). Type-locality: "Mexico". Distr. — same. Type ♂ ZMB.
- BASSLERI (Curran), 1941:245 (*Cerioides*). Type-locality: Peru, Upper Río Huallaga. Distr. — same. Type ♂ AMNH\*. N. COMB.
- BERGROTHI (Williston), 1892:77 (*Ceria*). Type-locality: Mexico, Vera Cruz, Atoyac. Distr. — same. Type ♂ BM(NH).
- CAPITIS (Curran), 1925a:27, pl. 1:2 (head) (*Cerioides*). Type-locality: Mexico, Mexico City. Distr. — U.S.A. (Texas); Mexico (Distrito Federal). Type ♂ USNM.
- LYNCHARRIBALZAGAI Shannon, 1927d:40. Type-locality: Argentina, Tucumán, Quebrada de Lules. Distr. — same. Type ♀ MACN?
- MACQUARTI Shannon, 1925c:59 (nom. nov. for *scutellata* Williston). Distr. — U.S.A. (Texas); Mexico.  
*scutellata* Williston, 1887:265 (*Ceria*; preocc. Macquart, 1842). Type-locality: Mexico. Type ♀ USNM.
- NIGRA (Bigot), 1883b:317 (*Sphymorpha*). Type-locality: "Mexico". Distr. — same. Types ♂ ♀ BM(NH).
- ODONTOMERA (Curran), 1941:244 (*Cerioides*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (São Paulo, Acre, Mato Grosso). Type ♂ AMNH. [lost-FCT]. N. COMB.
- PEDICELLATA (Williston), 1887:264 (*Ceria*). Type-locality: "Mexico". Distr. — U.S.A. (Arizona, Texas, Florida); Mexico (Guanajuato, Isthmus of Tehuantepec). Type ♂ USNM. Ref. — Curran, 1925a:30 (redescription), pl. 2:3 (head).
- PLAUMANNI (Curran), 1941:245 (*Cerioides*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*. N. COMB.
- RUFIBASIS (Bigot), 1883b:318 (*Sphymorpha*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH).
- SCHNABEI (Williston), 1892:76 (*Ceria*). Type-locality: Mexico, Vera Cruz, Atoyac. Distr. — U.S.A. (Texas), Mexico (Vera Cruz). Types ♂ BM(NH).
- SCHWARZI Shannon, 1925c:57. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ USNM.
- TOWNSENDI (Snow), 1895b:246 (*Ceria*). Type-locality: U.S.A., New Mexico, Las Cruces. Distr. — U.S.A. (California to Texas); Mexico (Durango). Type ♂ UK.
- TRAVASSOSI (Lane & Carrera), 1943:172 (*Cerioides*). Type-locality: Brazil, São Paulo, Rio Paraná, Porto Cabral. Distr. — same. Type ♂ MZUSP\*. N. COMB.

## UNPLACED SPECIES OF CERIOIDINI

- NITIDA Sack, 1941:118 (1951:114) (*Cerioides*). Type-locality: Peru, Umanchuán. Types ♂ ♀ ?
- ROBUSTA Sack, 1941:119 (1951:115) (*Cerioides*). Type-locality: Peru, mouth of Pachitea River; Meshagua on Urubamba River. Types ♂ ?





# Tribe ERISTALINI

## Genus HELOPHILUS Meigen

- HELOPHILUS Meigen, 1822:368. Type-species, *Musca pendula* Linnaeus (Curtis, 1832:pl. 429). Ref. — Curran & Fluke, 1926:211-229 (key, rev.).
- FASCIATUS Walker, 1849:605. Type-locality: Canada, Ontario, Hudson's Bay, Albany River, St. Martin's Fall. Distr. — Canada (British Columbia to Quebec), south to U.S.A. (Florida), Mexico; Haiti? [Walker, 1860]. Type BM(NH). Ref. — Curran & Fluke, 1926:220 (redescription), pl. 5:6 (head).
- similis* Macquart, 1842:124 (64) (preocc. Curtis, 1832). Type-locality: Georgia. Type ♂ OXF\*.
- impositus* Walker, 1860:289 (*Eristalis*). Type-locality: Haiti (error?). Type ♀ BM(NH).
- LATIFRONS Loew, 1863:313 (1864b:197). Type-locality: U.S.A., Nebraska. Distr. — Alaska to Labrador, south to U.S.A. (Florida), Mexico. Types ♂ ♀ MCZ. Ref. — Curran & Fluke, 1926:216 (redescription), pl. 5:7, 8 (head).

## Genus POLYDONTOMYIA Williston

- Polydonta* Macquart, 1850:448 (144) (preocc. Fischer, 1807). Type-species, *bicolor* Macquart (orig. des.) = *albiceps* (Macquart).
- Triodonta* Williston, 1885:136 (nom. nov. for *Polydonta* Macquart; preocc. Bory, 1827). Type-species, *Polydonta bicolor* Macquart (aut.) = *albiceps* (Macquart).
- POLYDONTOMYIA Williston, 1896:89. Type-species, *Merodon curvipes* Wiedemann (Coquillett, 1910a:593) = *albiceps* (Macquart).
- ALBICEPS (Macquart), 1846:260 (132) (*Helophilus*). Type-locality: Canada, Nova Scotia. Distr. — Alaska, south to U.S.A. (California & Nebraska); also Canada (eastern Quebec to Nova Scotia), south to U.S.A. (New Jersey); Mexico? [Wirth, et al., 1965:621], Brazil? [Walker, 1852:243]. Type ♀ MNHN? N. STATUS.
- curvipes* Wiedemann, 1830:149 (*Merodon*; preocc. Gmelin, 1790). Type-locality: "North America". Type ♀ VMNH. N. STATUS.
- bicolor* Walker, 1852:243 (*Merodon*; preocc. Macquart, 1850). Type locality: Brazil (error?). Type ♀ BM(NH)\*. N. SYN.

## Genus ASEMOZYRPHUS Bigot

- ASEMOZYRPHUS Bigot, 1882a:cxviii. Type-species, *oculiferus* Bigot (Aldrich, 1933:168) = *mexicanus* (Macquart).
- Dimorphomyia* Bigot, 1885b:clxxiii. Type-species, *calliphoroides* Bigot (mon.) = *mexicanus* (Macquart) [see Aldrich, 1933:168]. Ref. — Curran, 1939c (key).
- ARQUATUS (Say), 1829:162 (*Xylota*). Type-locality: "Mexico". Distr. — same. Type ? lost. N. COMB.
- formalis* Walker, 1849:603 (*Helophilus*). Type-locality: "Mexico". Type ♀ BM(NH)\*. N. SYN.
- bicolor* Bigot, 1882a:cxix. Type-locality: "Mexico". Type ♀ BM(NH). N. SYN.
- impurus* Giglio-Tos, 1892c:6. Type-locality: "Mexico". Type ♀ UTOR\*.
- olivaceus* Giglio-Tos, 1892c:6. Type-locality: "Mexico". Type ♀ UTOR\*.
- arcuata*, Aldrich, 1905:398, emend.

- MEXICANUS (Macquart), 1842:124 (64), pl. 11, fig. 2 (habitus), 2a (head) (*Helophilus*). Type-locality: "Mexico". Distr. — same. Types ♂ ♀ OXF\*.
- oculiferus* Bigot, 1882a:cxxviii. Type-locality: "Mexico". Type ♀ BM(NH).
- nigroscutatus* Bigot, 1882a:cxxviii. Type-locality: "Mexico". Type ♀ BM(NH).
- flavocaudatus* Bigot, 1882a:cxxviii. Type-locality: "Mexico". Types ♀ BM(NH).
- calliphoroides* Bigot, 1885b:clxxiii (*Dimorphomyia*). Type-locality: "Mexico". Type ? OXF.
- griseus* Giglio-Tos, 1892c:6. Type-locality: Mexico, Tehuacán. Types ♂ ♀ UTOR\*.
- POLYGRAMMUS (Loew), 1872a:85 (1872b:261) (*Helophilus*). Type-locality: U.S.A., California. Distr. — Canada (British Columbia) to U.S.A. (Montana, south to California & Colorado); Mexico? [Wirth, *et al.*, 1965:620]. Type ♀ MCZ.

#### Genus DOLICHOGYNA Macquart

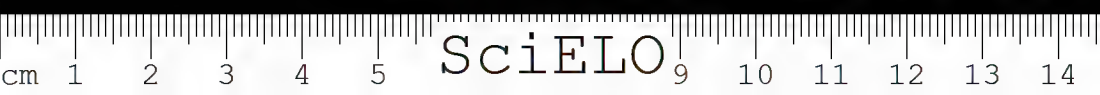
- DOLICHOGYNA Macquart, 1842:125 (65). Type-species, *fasciata* Macquart (orig. des.) = *chiliensis* (Guérin-Mèneville). Ref. — Fluke, 1951a (rev., key).

#### Subgenus DOLICHOGYNA Macquart

- ABRUPTA Hine, 1914:342. Type-locality: Peru, Arequipa. Distr. — Chile, Peru. Type ♂ OhSU. Ref. — Fluke, 1951a:472 (redescription), figs. 4, 5 (head), 23 (male genitalia).
- CHILIENSIS (Guérin-Mèneville), 1835:545, tab. 99, fig. 2 (habitus), 2a (head), 2b (antenna), 2c (hind leg) (*Helophilus*). Type-locality: "Chile". Distr. — Chile, Argentina (Jujuy, Neuquén). Type ? MNHN [lost? — not found, JRV]. Ref. — Fluke, 1951a:467 (redescription), figs. 1,2 (head), 11, 12 (abdomen), 19, 22 (male genitalia).
- chilensis*, various authors, misspelling.
- chilensis* Walker, 1837:344 (*Helophilus*; preocc. Guérin-Mèneville, 1835). Type-locality: Chile, Chiloé. Types ♂ ♀ BM(NH).
- fasciata* Macquart, 1842:126, (186), tab. 12:1 (habitus) (66). Type-locality: Chile. Types ♀ MNHN\*.
- hahni* Bigot, 1888b:24, tab. 3:6 (habitus) (*Helophilus*). Type-locality: ?Cap Horn? [no definite locality given]. Type ♂ ♀ BM(NH).
- MULLERI Fluke, 1951a:470, figs. 3 (head), 13 (abdomen), 15 (male genitalia). Type-locality: Ecuador, Azuay, Girón. Distr. — Peru, Ecuador. Type ♂ AMNH\*.
- PERUANA Sack, 1941:114 (1951:110). Type-locality: Peru, Ocaña; Arequipa. Distr. — Peru, Chile. Types ♂ ♀ SMF\*.

#### Subgenus NOSODEPUS Speiser

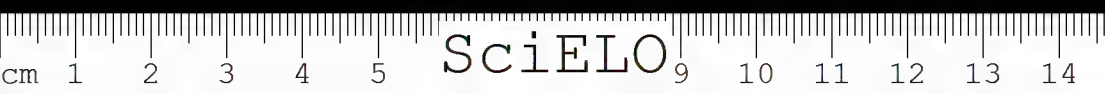
- NOSODEPUS Speiser, 1914:131 (as genus). Type-species, *minotaurus* Speiser (orig. des.).
- Conocotamyia* Fluke, 1951a:473. Type-species, *Helophilus picta* Philippi (orig. des.).
- HINEI Fluke, 1951a:476, figs. 6, 10 (head), 21 (cercus), 25 (middle tarsus). Type-locality: Peru, Puno. Distr. — Bolivia, Peru. Type ♂ OhSU.



- MINOTAURUS (Speiser), 1914:132, figs. (head, leg) (*Nosodepus*). Type-locality: Peru, Guaqui. Distr. — same. Type ♀ [Wiesbaden?].
- NIGRIPES Bigot, 1883b:346. Type-locality: "Chile". Distr. — Argentina, Chile. Types ♂ ♀ BM(NH). Ref. — Fluke, 1951a:477 (redescription), figs. 16 (male genitalia), 26 (middle tarsus).
- PENNIPES (Sack), 1941:114 (1951:110), fig. 7 (middle tarsus) (*Tubifera*). Type-locality: "Peru". Distr. — same. Types ♂ ♀ MD. N. COMB.
- PICTA (Philippi), 1865:743 (*Helophilus*). Type-locality: "Chile". Distr. — Peru, Argentina, Chile. Type ♀ MNHNS. Ref. — Fluke, 1951a:474 (redescription), figs. 7 (head), 14 (abdomen), 20, 24 (male genitalia), 27 (middle tarsus).
- REYNOLDSI Shannon & Aubertin, 1933:165. Type-locality: Argentina, Tierra del Fuego, Río Grande. Distr. — Chile, Argentina. Type ♂ BM(NH). Ref. — Fluke, 1951a:475 (redescription), figs. 8, 9 (head), 17, 18 (male genitalia).
- ROSTRATA (Macquart), 1846:259 (131) (*Helophilus*). Type-locality: "Nouvelle-Grenade". Distr. — same. Type ♂ BM(NH)\*. N. COMB.

#### Genus QUICHUANA Knab

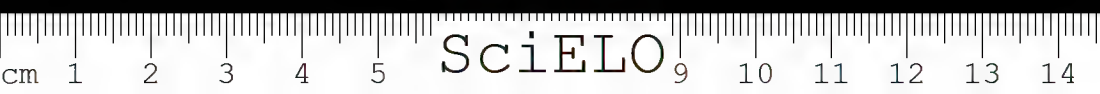
- QUICHUANA Knab, 1913:13. Type-species, *sylicola* Knab (orig. des.).  
*Quihuana*, Hull, 1944k:510, misspelling.  
 Ref. — Hull, 1946a (rev., key).
- ANGUSTRIVENTRIS (Macquart), 1855:110 (90), pl. 5, fig. 2 (head) (*Mero-don*). Type-locality: unknown. Distr. — South America? Type ♂ MNHN.
- AURATA (Walker), 1857:153 (*Helophilus*). Type-locality: "Valley of Amazon". Distr. — Colombia, Peru. Type ♂ BM(NH). Ref. — Hull, 1946a:13 (redescription), fig. 2 (head).
- BEZZII Ceresa, 1934:387, figs. 3a+b (head), 3c (wing). Type-locality: Brazil, São Paulo, São Sebastião. Distr. — Brazil (São Paulo), Argentina (Tucumán). Types ♀ ♂ MCSNM\*.
- BORGMEIERI Lane & Carrera, 1944:206. Type-locality: Brazil, São Paulo, Horto Florestal da Cantareira. Distr. — same. Type ♀ MZUSP\*.
- CALATHEA Shannon, 1925:111. Type-locality: Panama, Porto Bello. Distr. — Panama, Colombia. Types ♂ ♀ USNM\*. Ref. — Hull, 1946a:16, fig. 13 (head).
- CESTUS Hull, 1946a:4, figs. 4 & 14 (head), 16 (antenna). Type-locality: Venezuela, Mt. Duida. Distr. — same. Type ♀ AMNH\*.
- CHAMPIONI (Williston), 1892:69 (*Mallota?*). Type-locality: Mexico, Guerrero, Amula, 6000 ft. Distr. — Mexico (Durango, Veracruz, Guerrero). Type ♂ BM(NH). Ref. — Hull, 1946a:9 (redescription), figs. 19 (antenna), 27 (head).  
*nigra* Giglio-Tos, 1892c:6 (*Platynochaetus*). Type-locality: Mexico, Orizaba. Types ♀ UTOR\*. N. SYN.
- CINTA (Bigot), 1883b:345 (*Lepidomyia*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH)\*. Ref. — Hull, 1946a:16, figs. 21 (antenna), 26 (head).
- DOLOROSA Hull, 1946a:6. Type-locality: Bolivia, Mapiri. Distr. — same. Type ♂ AMNH\*.
- FASCIATA (Sack), 1941:115 (1951:111) (*Myiatropa*). Type-locality: Peru, Paso de Lares. Distr. — same. Types ♂ ♀ MD + SMF\*.
- HERMOSA Hull, 1951b:67. Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ Hull.
- INCA Shannon, 1925a:111. Type-locality: Peru, Huascaray. Distr. — Co-



- lombia, Peru. Type ♂ USNM. Ref. — Hull, 1946a:16, figs. 11 & 24 (head), 18 (antenna).
- var. *BREVICERA* Hull, 1946a:7. Type-locality: Colombia, Atrata Valley, Boca de Arquia. Types ♂ BM(NH)\*.
- KNABI Shannon, 1927a:15. Type-locality: Bolivia, Beni, Cavinás. Distr. — same. Type ♀ USNM. Ref. — Hull, 1946a:16, figs. 9 & 22 (head), 15 (antenna).
- MONTANA Hull, 1951b:65. Type-locality: Peru, Chanchamayo. Distr. — Venezuela, Peru. Type ♂ Hull.
- NIGRICANS Thompson (nom. nov. for *nigra* Hull). Distr. — Peru. NOM. NOV.
- nigra* Hull, 1949g:133 (preocc. Giglio-Tos, 1892). Type-locality: Peru, Pucallpa. Type ♀ Hull.
- PARISII Ceresá, 1934:389, figs. 4a+b (head), 4c (wing). Type-locality: Brazil, São Paulo, São Sebastião. Distr. — same. Types ♀ MCSNM\*.
- PICADOI Knab, 1913:14. Type-locality: "Costa Rica". Distr. — Costa Rica, Colombia, Surinam. Type ♀ USNM. Ref. — Hull, 1946a:16, figs. 12 & 25 (head), 17 (antenna).
- POGONOSA Fluke, 1937:11, fig. 14 (head). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Venezuela, Brazil. Type ♂ AMNH\*. Ref. — Hull, 1946a:15, fig. 8 (head).
- QUIXOTEA Hull, 1946a:14, fig. 6 (head). Type-locality: "Colombia". Distr. — same. Types ♂ ♀ Hull.
- RIESELII Shannon, 1927c:5. Type-locality: Argentina, Tucumán. Distr. — same. Type ♂ MACN?
- SEPIAPENNIS Hull, 1944k:510 (*Quihuana*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ Hull. Ref. — Hull, 1946a:15, figs. 1 & 5 (head).
- SIMONETTA Hull, 1946a:5, figs. 3 & 7 (head). Type-locality: Peru, Huanabamba. Distr. — same. Type ♀ VMNH.
- SUBCOSTALIS (Walker), 1860:291 (*Xylota*). Type-locality: "Mexico". Distr. — same. Type ♀ BM(NH). Ref. — Hull, 1946a:16, figs. 20 (antenna), 28 (head).
- SYLVICOLA Knab, 1913:14. Type-locality: Peru, Chanchamayo. Distr. — same. Type ♀ USNM. Ref. — Hull, 1946a:16, figs. 10 & 23 (head).
- URSULA Hull, 1949g:136. Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull.

#### Genus MALLOTA Meigen

- MALLOTA Meigen, 1822:377. Type-species, *Syrphus fuciformis* Fabricius (Rondani, 1845:452).
- Imatisma* Macquart, 1842:127 (67). Type-species, *Eristalis posticatus* Fabricius (orig. des.). Ref. — Curran, 1940:12 (key).
- ABERRANS Shannon, 1927a:17. Type-locality: Peru, Paltaybamba. Distr. — same. Type ♀ USNM.
- ANALIS (Macquart), 1846:260 (138), pl. 11, fig. 8 (habitus) (*Imatisma*). Type-locality: "Nova Grenada". Distr. — same. Type ♀ BM(NH).
- BEQUAERTI Hull, 1956:24. Type-locality: U.S.A., Texas, Chisos Mountains, Big Bend National Park. Distr. — U.S.A. (Texas, Arizona); Mexico. Type ♂ MCZ.





- COLOMBII Macquart, 1850:445 (141), tab. 13, fig. 3 (habitus), 3a (head), 3b (antenna), 3c (hind leg). Type-locality: Colombia. Distr. — Colombia, Venezuela, Peru. Type ♀ MNHN\*.
- vulpina* Sack, 1941:116 (1951:112). Type-locality: Peru, Pichis. Types ♂ ♀ MD\*. N. SYN.
- apimima* Hull, 1944i:402. Type-locality: "Venezuela". Type ♂ VMNH\*. N. SYN.
- INTERMEDIA Hull, 1949g:125. Type-locality: Peru, Huánuco, F. Sinchono District. Distr. — same. Type ♀ Hull.
- INVERSA Shannon, 1927a:16. Type-locality: Peru, Chanchamayo. Distr. — Peru. Type ♀ USNM.
- MARGARITA Williston, 1892:70, pl. 2:7 (habitus), 7a (head), 7b (hind leg). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft.; Xucumanatlán, 7000 ft. Distr. — same. Types ♂ ♀ BM(NH) & AMNH\*.
- MYSTACIA Fluke, 1939:372, fig. 12 (head). Type-locality: Panama, Chiriquí, El Volcán. Distr. — same. Type ♂ AMNH\*.
- NIGRA Shannon, 1927a:16. Type-locality: Ecuador, Santa Inez. Distr. — same. Type ♀ BM(NH).
- RUBICUNDA Curran, 1940:13. Type-locality: Ecuador, Tungurahua, Mt. Tungurahua. Distr. — same. Type ♂ AMNH\*.
- SACKENI Williston, 1882b:324. Type-locality: U.S.A., Washington Territory. Distr. — Western Canada & U.S.A.; Mexico. Types ♂ USNM. Ref. — Williston, 1887b:204 (redescription), pl. 8:14 (wing).
- SALTI Curran, 1929:499. Type-locality: Colombia, Santa Marta, Vista Nieve. Distr. — same. Type ♀ AMNH\*.
- SMITHI Williston, 1892:70, pl. 2:8 (habitus), 8a (head), 8b (antenna). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft. Distr. — same. Types ♂ ♀ BM(NH) & AMNH\*.

#### Genus HABROMYIA Williston

- HABROMYIA Williston, 1888:284. Type-species, *coeruleithorax* Williston (mon.).
- Edwardsiella* Hull, 1941i:437. Type-species, *ochracea* Hull (orig. des.).
- Lycopale* Hull, 1944h:129. Type-species, *Meromacrus vittata* Hull (orig. des.) = *lizeri* (Brèthes).
- Criorthrix* Hull, 1949d:391. Type-species, *Habromyia rectilinea* Hull (orig. des.).
- BARBIELLINII (Ceresa), 1934:383, figs. 1 (habitus), 2a+b (head), 2c (wing) (*Quichuana*). Type-locality: Brazil, São Paulo, São Sebastião. Distr. — same. Types ♂ ♀ MCSNM\*.
- CHRYSOTAENIA Fluke, 1937:12, fig. 15 (abdomen). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- COERULEITHORAX Williston, 1888:284. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Peru, Brazil. Types ♂ ♀ AMNH\*. Ref. — Hull, 1949d:390, figs. 24a (wing), 24j (head).
- FLAVIFACES Shannon, 1927a:15. Type-locality: "Amazon". Distr. — same. Type ♂ BM(NH)\*.
- FLOCCULA Hull, 1944j:47. Type-locality: Peru, Matucana. Distr. — same. Type ♀ CU.
- LANGI Curran, 1934b:406. Type-locality: Guyana, Kamakusa. Distr. — same. Type ♀ AMNH\*.
- LIPOFLAVA Fluke, 1937:13. Type-locality: Peru, Yura. Distr. — Peru. Type ♂ AMNH\*.

- LIZERI (Brèthes), 1914:97 (*Helophilus*). Type-locality: Argentina, Córdoba. Distr. — Argentina. Type ♂ MACN. N. COMB.  
*vittata* Hull, 1937a:170 (*Meromacrus*). Type-locality: Argentina, Villa Nougés. Type ♀ USNM\*. N. SYN.  
MAGNIFICA (Bigot), 1880a:85 (*Plagiocera*). Type-locality: Colombia. Distr. — same. Type ♂ OXF\*. Ref. — Hull, 1949d:390, fig. 24h (head).  
OCHRACEA (Hull), 1941i:437 (*Edwardsiella*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ USNM\*. Ref. — Hull, 1949d:390, fig. 24f (head).  
RECTILINEA Hull, 1942h:19. Type-locality: Bolivia, Río Songo, 800 m. Distr. — Bolivia. Types ♀ VMNH & Hull.  
XYLOTAIFORMIS (Schiner), 1868:360 (*Mallota*). Type-locality: "Chile". Distr. — same. Types ♂ ♀ VMNH.

#### Genus ERISTALIS Latreille

- Tubifera* Meigen, 1800:34. Type-species, *Musca tenax* Linnaeus (Coquillett, 1910a:618). Suppressed by I.C.Z.N., 1963:339.  
*Elophilus* Meigen, 1803:274. Type-species, *Musca tenax* Linnaeus (Latreille, 1810:443).  
ERISTALIS Latreille, 1804:194. Type-species, *Musca tenax* Linnaeus (Curtis, 1832:pl. 432). [In order to preserve established usage, we have followed Wirth, *et al.*, 1965:622, in using *Eristalis* instead of its senior synonym, *Elophilus*.]  
*Eristaloides* Rondani, 1845:453. Type-species, *Musca tenax* Linnaeus (Coquillett, 1910a:540).  
*Eristalomya* Rondani, 1857:38. Type-species, *Musca tenax* Linnaeus (orig. des.).  
*Eriops* Liroy, 1864:743 (preocc. Klug, 1808). Type-species, *Musca tenax* Linnaeus (Goffe, 1946:29). Ref. — Hull, 1925a, 1925b (rev., key); Curran, 1930c, 1934b:407 (keys); Shannon & Aubertin, 1933:159 (key to Chilean and Southern Patagonian spp.); Bean, 1949 (male genitalia, key).

#### Subgenus ERISTALIS Latreille

- TENAX (Linnaeus), 1758:591 (*Musca*). Type-locality: "Europe". Distr. — cosmopolitan. Type ? ? Ref. — Williston, 1887b:160 (redescription), pl. 7:7 (wing), 7a (head), 7b (antenna), 7c (hind leg).

#### Subgenus EOSERISTALIS Kanervo

- EOSERISTALIS Kanervo, 1938:12. Type-species, *Eristalis cerealis* Fabricius (orig. des.).  
AZTECUS Hull, 1935:326, figs. 5 (head), 7, 8 (hind femora). Type-locality: Mexico, Real del Monte. Distr. — same. Type ♀ USNM\*.  
BELLARDII Jaennicke, 1867:400. Type-locality: "Mexico". Distr. — U.S.A. (Arizona); Mexico (Durango). Type ♂ SMF. N. STATUS.  
*rufoscutata* Bigot, 1880b:221 (*Eristalomyia*). Type-locality: Mexico. Types ♂ ♀ OXF\*. N. SYN.  
BOGOTENSIS Macquart, 1842:112 (52). Type-locality: Colombia, Santa Fé de Bogotá. Distr. — Colombia, Venezuela, Ecuador, Peru, Bolivia, Chile, Argentina (south to Tierra del Fuego). Types ♀ MNHN\* & BM(NH). Ref. — Hull, 1925b:308 (redescription), pl. 11:7 (abdomen), 2:12 (head), 15 (mesonotum).

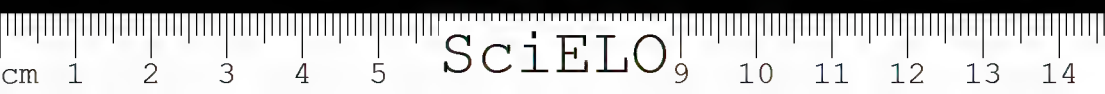
- assimilis* Macquart, 1846:257 (129). Type-locality: "Colombia". Types ♂ ♀ MNHN? (not found — JRV). N. SYN.
- CIRCE Williston, 1891:59, pl. 2:3 (habitus), 3a (head). Type-locality: Mexico, Durango, Ciudad; Guerrero, Omiltemi, 8000 ft.; Jalapa. Distr. — Mexico (Durango-Chiapas). Types ♂ ♀ BM(NH). Ref. — Hull, 1935:327 (redescription), fig. 2 (head).
- bombusoides* Giglio-Tos, 1892c:4. Type-locality: Mexico, Oaxaca. Types ♂ ♀ UTOR\*.
- GUADELUPENSIS Macquart, 1842:92 (32). Type-locality: "Guadeloupe" (Error?). Distr. — same. Type ♂ MNHN\*.
- PERSA Williston, 1891:58. Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas, 9000 ft. Distr. — same. Type ♀ BM(NH)\*.
- STIPATOR Osten-Sacken, 1877:336. Type-locality: U.S.A.: Colorado, Manitou Park & Denver; New Mexico, Morino Valley; California. Distr. — Canada (British Colombia to Nova Scotia), south to U.S.A. (Florida), Mexico (Guerrero). Types ♂ ♀ MCZ. Ref. — Williston, 1887b:164 (redescription).
- latifrons* Loew, 1866a:169 (1872b:43) (preocc. Fallén, 1817). Type-locality: Mexico, Matamoros. Types ♂ ♀ MCZ.
- var. MACULIPENNIS Townsend, 1897d:93. Type-locality: U.S.A., New Mexico, Rio Gila, Head of East Fork. Types ♂ ♀ BM(NH).
- TENUIFRONS Curran, 1930c:12. Type-locality: Panama, Canal Zone, Fort Randolph. Distr. — same. Type ♀ AMNH\*.

#### Genus LYCASTRIRHYNCHA Bigot

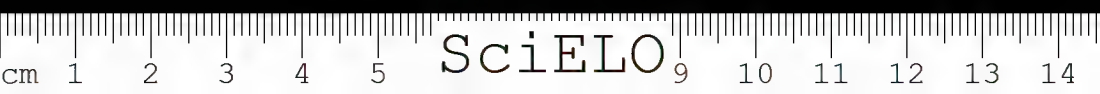
- LYCASTRIRHYNCHA Bigot, 1859:307. Type-species, *nitens* Bigot (mon.). *Lycastrirrhyncha*, various authors, misspelling.
- Ref. — Doesburg, 1962:31 (key).
- MEXICANA Curran, 1930e:15. Type-locality: Mexico, Vera Cruz. Distr. — same. Type ♀ AMNH\*.
- NITENS Bigot, 1859:307. Type-locality: "Amazonia". Distr. — Mexico (Veracruz), "Amazons". Type ♀ OXF\*. Ref. — Hull, 1949d:393, fig. 25b (habitus), 25m (head).
- QUINTA Doesburg, 1963:31. Type-locality: Surinam, Paramaribo. Distr. — same. Type ♀ Doesburg\*. Ref. — Doesburg, 1966:103 (description of male), figs. 67 (head), 68 (habitus).
- TITILLANS Hull, 1944j:53. Type-locality: Guyana, Demerara River, Mackenzie. Distr. — same. Type ♂ CU.
- WILLISTONI Coquillett, 1902:196. Type-locality: Mexico, Tabasco, Frontera. Distr. — same. Types ♂ USNM. Ref. — Hull, 1949d:269, fig. 6a (head).

#### Genus PALPADA Macquart

- PALPADA Macquart, 1834:512. Type-species, *scutellata* Macquart (mon.) = *scutellaris* (Fabricius).
- Doliosyrphus* Bigot, 1882a:cx. Type-species, *scutellatus* Bigot (Williston, 1887b:178) = *scutellaris* (Fabricius).
- Doliosyrphus*, Bigot, 1883b:228, misspelling.
- Ref. — Curran, 1930c, 1934b:407 (key, as part of *Eritalis*).
- AEMULA (Williston), 1891:64, pl. 2:5 (habitus) (*Eritalis*). Type-locality: Mexico, Guerrero: Río Papagaio, 1200 ft.; Chilpancingo, 4600 ft.; Rincón, 2800 ft.; Venta de Zopilote 2800 ft.; Guatemala, San Geronimo; Panama: Bugaba. Distr. — Mexico (Guerrero), Gua-



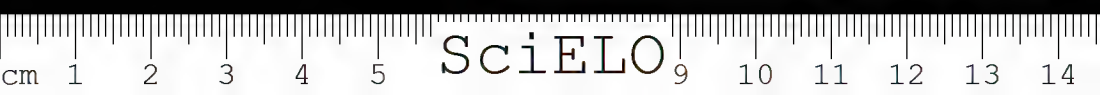
- temala, Panama, Guyana, Colombia. Types ♂ ♀ BM(NH). Ref. — Hull, 1925b:288 (redescription), pl. 1:1 (abdomen), 2:18 (hind leg). N. COMB.
- AGRORUM (Fabricius), 1787:335 (*Syrphus*). Type-locality: "America". Distr. — U.S.A. (Louisiana, Florida), West Indies (Cuba, Puerto Rico), Honduras, Panama, Venezuela, Peru, Brazil, Paraguay, Argentina (Tucumán, Jujuy, Formosa, Santa Fe, Entre Rios, Córdoba). Types ♂ ♀ MC\*. Ref. — Hull, 1925a:38 (description), pl. 1:3 (abdomen), 2:14 (mesonotum); Bean, 1949:143, fig. 4 (male genitalia). N. COMB.
- cubensis* Macquart, 1842:102 (42) (*Eristalis*). Type-locality: Cuba, Havana. Type ♀ OXF\*.
- ?*sallei* Giglio-Tos, 1892c:5 (*Eristalis*). Type-locality: Mexico. Type ♀ UTOR\*.
- sallaei*, various authors, misspelling.
- ALBIFRONS (Wiedemann), 1830:189 (*Eristalis*). Type-locality: "Brazil". Distr. — U.S.A. (Louisiana to North Carolina & Florida); Cuba, Mexico, Guatemala, Panama, Colombia, Venezuela, Surinam, Brazil. Type ♂ VMNH. Ref. — Hull, 1925a:35 (redescription), pl. 1:7 (abdomen); Bean, 1949:144, fig. 3 (male genitalia). N. COMB.
- senicula* Loew, 1866a:168 (1872b:42) (*Eristalis*). Type-locality: Cuba, Type ♂ MCZ.
- ALBIVENTRIS (Bigot), 1880b:228 (*Eristalomyia*). Type-locality: Uruguay, Montevideo. Distr. — same. Type ♀ BM(NH). N. COMB.
- AMAZON (Curran), 1930c:23 (*Eristalis*). Type-locality: Brazil, Amazonas, Rio Caiari-Uaupés. Distr. — Venezuela, Brazil (Amazonas). Type ♀ AMNH\*. N. COMB.
- ARGYROPILO (Hull), 1938:121, fig. 10 (head) (*Eristalis*). Type-locality: French Guiana, Mana River. Distr. — same. Type ♀ CM. N. COMB.
- ATRIMANA (Loew), 1866a:167 (1872b:41) (*Eristalis*). Type-locality: "Cuba". Distr. — Cuba, Jamaica, Haiti, Puerto Rico, ?Venezuela [AMNH]. Type ♀ MCZ. Ref. — Williston, 1887b:173 (description); Curran, 1930c:16 (redescription). N. COMB.
- ?*willistoni* Townsend, 1895a:47 (*Eristalis*). Type-locality: Jamaica, Bath; San Domingo. Types ♂ ♀ BM(NH) & USNM. [Williston, 1887b:173, refers to this species].
- BEQUAERTI (Hull), 1942a:84 (*Eristalis*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♂ MCZ\*. N. COMB.
- antiopa* Hull, 1942a:87 (*Eristalis*). Type-locality: Paraguay, Villarica. Type ♀ MCZ\*. N. SYN.
- BISTELLATA (Hull), 1935:328, figs. 1 (head), 6 (hind tibiae) (*Eristalis*). Type-locality: Peru, Piches & Perené. Distr. — same. Type ♀ USNM\*. N. COMB.
- BRAZILIENSIS (Goot), 1964:214 (*Eristalis*; nom. nov. for *trifasciata* Macquart). Distr. — Brazil. N. COMB.
- trifasciata* Macquart, 1842:99 (39), pl. 10, fig. 1 (head) (*Eristalis*; preocc. Say, 1830). Type-locality: "Brazil". Type ? MNHN? (not found — JRV).
- BREVIVILLOSA (Hull), 1937a:173, figs. 2 (abdomen), 4 (hind leg) (*Eristalis*). Type-locality: Peru, Lima. Distr. — same. Type ♀ USNM\*. N. COMB.
- CALIGINOSA (Walker), 1849:621 (*Eristalis*). Type-locality: ?. Distr. — ? (probably Neotropical). Type ♀ BM(NH)\*. N. COMB.





- ?CALOMERA (Bigot), 1880b:229 (*Eristalomyia*?). Type-locality: "Amer. merid.". Distr. — same. Type ♀ BM(NH). N. COMB.
- ?CALOPS (Bigot), 1880b:227 (*Eristalomyia*). Type-locality: "Colombia". Distr. — same. Type ♀ BM(NH).
- CHILENA (Rondani), 1863:5 (*Eristalomyia*). Type-locality: "Chile". Distr. — Mexico?, Jamaica?, Guyana?, Brazil?, Chile (south to Aysén), Argentina (doubtful records all from Fluke, 1957:137). Type ♀ MIZUN. N. COMB.
- lateralis* Walker, 1837:347 (*Eristalis*; preocc. Fallén, 1817). Type-locality: "Chile". Type ♂ BM(NH)\*.
- porteri* Curran, 1935:8 (*Eristalis*). Type-locality: Chile, "probably Valparaíso". Type ♂ AMNH\*. N. SYN.
- CHILENSIS (Philippi), 1865:743 (*Eristalis*). Type-locality: Chile, Santiago. Distr. — same. Type ? MNHNS. N. COMB.
- CLARIPENNIS (Hull), 1949g:123 (*Eristalis*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Peru, Brazil (Santa Catarina). Type ♂ Hull. N. COMB.
- CLARISSIMA (Giglio-Tos), 1892c:5 (*Eristalis*). Type-locality: Mexico, Tuxpango. Distr. — same. Types ♂ UTOR\*. N. COMB.
- CLAUDIA (Curran), 1930c:18 (*Eristalis*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ AMNH\*. N. COMB.
- ?COLUMBICA (Macquart), 1855:108 (88) (*Eristalis*). Type-locality: Colombia. Distr. — same. Type ♀ BM(NH). N. COMB.
- CONCOLOR (Philippi), 1865:743 (*Eristalis*). Type-locality: Chile, Valparaíso. Distr. — same. Type ? MNHNS. N. COMB.
- CONGRUA (Wulp), 1888:371 (*Eristalis*). Type-locality: Argentina, Prov. Tucumán. Distr. — same. Type ♂ ML? (lost? — not found — JRV). N. COMB.
- CONICA (Fabricius), 1805:190 (*Milesia*). Type-locality: "America meridionali". Distr. — Guatemala, Colombia, Guyana, Brazil (Rio de Janeiro, Mato Grosso). Type ♂ ♀ MC\*. Ref. — Hull. 1925b:290 (redescription), pl. 1:6 (abdomen). N. COMB.
- CORA (Hull), 1949g:121 (*Eristalis*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ Hull. N. COMB.
- COSMIA (Schiner), 1868:362 (*Eristalis*). Type-locality: "Venezuela". Distr. — Mexico (Veracruz), Ecuador, Colombia, Peru, Argentina (Tucumán). Types ♂ ♀ VMNH\*. N. COMB.
- CROCEIMACULATA (Jacobs), 1900:107 (*Eristalis*). Type-locality: Argentina, Tierra del Fuego, Isla de los Estados, "Golfo Saint-Jean". Distr. — same. Type ♀ ?
- ?CROCEIPES (Bigot), 1880b:227 (*Eristalomyia*). Type-locality: "Amer. merid.". Distr. — same. Type ♀ BM(NH). N. COMB.
- DECORA (Perty), 1830:185, tab. 37, fig. 3 (habitus) (*Eristalis*). Type-locality: Brazil, "Provincia Piauihiensis". Distr. — same. Type(s) ? ZSM. N. COMB.
- DIABILIS (Hull), 1935:330, figs. 3 (scutellum), 11 (hind leg) (*Eristalis*). Type-locality: Mexico, Mexico City. Distr. — Mexico. Type ♂ USNM\*. N. COMB.
- DIMINUTA (Walker), 1849:622 (*Eristalis*). Type-locality: "Mexico". Distr. — same. Type ♀ BM(NH). N. COMB.
- DISTINGUENDA (Wiedemann), 1830:191 (*Eristalis*). Type-locality: Uruguay, Montevideo. Distr. — Paraguay, Uruguay, Argentina. Type ♂ VMNH\*. Ref. — Curran, 1930c:8 (descriptive note). N. COMB.

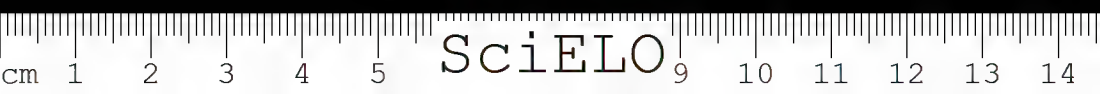
- xanthaspis* Wiedemann, 1830:191 (*Eristalis*). Type-locality: ? (not given). Type ♀ VMNH? (not found — JRV).
- DORIS (Curran), 1930c:20 (*Eristalis*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso, Rio de Janeiro). Type ♂ AMNH\*. N. COMB.
- DOROTHEA (Hull), 1942a:88 (*Eristalis*). Type-locality: Paraguay, Villarica. Distr. — same. Type ♀ MCZ\*. N. COMB.
- ELEGANS (Blanchard), 1852:406 (*Eristalis*). Type-locality: Chile, Coquimbo. Distr. — Chile (Santiago — rauco), Argentina (Saeta, Neuquén). Type(s) ? MNHN? (not found — JRV). Ref. — Hull, 1925a:26 (description), pl.2:13 (abdomen), 16 (mesonotum). N. COMB.
- philippii* Schiner, 1868:363 (*Eristalis*). Type-locality: "Chile". Types ♀ VMNH\*.
- ERRATICA (Curran), 1930c:19 (*Eristalis*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama, Colombia, Venezuela, Guyana, Trinidad, Ecuador, Peru, Brazil. Type ♂ AMNH\*. N. COMB.
- EXPICTA (Walker), 1860:290 (*Eristalis*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH)\*. N. COMB.
- FAMILIARIS (Walker), 1860:290 (*Eristalis*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH)\*. N. COMB.
- FASCIATA (Wiedemann), 1819:51 (*Eristalis*). Type-locality: "Brazil". Distr. — Mexico, Guatemala, Panama, Venezuela, Guyana, Trinidad, Ecuador, Brazil. Types ♂ ♀ VMNH\* & ZMB. Ref. — Hull, 1925a:34 (description), pl. 1:6 (abdomen), 2:15 (mesonotum). N. COMB.
- podagra* Macquart, 1842:98 (38) (*Eristalis*). Type-locality: Brazil, Pará. Type ♀ MNHN\*.
- proxima* Rondani, 1848:69 (*Eristalis*). Type-locality: "Brazil". Type ?
- bifasciata* Macquart, 1855:107 (87) (*Eristalis*). Type-locality: "Brazil". Types ♂ OXF\*.
- ?*surinamensis* Macquart, 1842:113 (53) (*Eristalis*; preocc. Degeer, 1776). Type-locality: "Surinam". Types ♂ MNHN\*. [probably not *fasciata*].
- FASCICULATA (Curran), 1938:2 (*Eristalis*). Type-locality: Brazil, São Paulo. Distr. — Brazil, Argentina (Tucumán, Neuquén). Type ♂ AMNH\*. N. COMB.
- FLAVIPENNIS (Macquart), 1842:112 (52) (*Eristalis*). Type-locality: "Guyane". Distr. — same. Type ♀ MNHN\*. N. COMB.
- FLAVOSCUTELLATA (Hull), 1937a:173, figs. 1 (tip of abdomen), 7 (hind leg) (*Eristalis*). Type-locality: Costa Rica, Hiquito, San Mateo. Distr. — same. Type ♀ USNM\*. N. COMB.
- FLOREA (Hull), 1925a:39, pl. 1:3 (abdomen) (*Eristalis*). Type-locality: Guyana, Arakaba & Bartica, Kartabo. Distr. — Mexico (Tabasco), Panama, Guyana, Trinidad. Type ♂ OhSU. N. COMB.
- FULIGINOSA (Hull), 1935:327, figs. 4 (scutellum), 9 (head), 10, 12 (hind femur) (*Eristalis*). Type-locality: Costa Rica, Atenas. Distr. — same. Type ♂ USNM\*. N. COMB.
- FULVIPES (Bigot), 1880z:225 (*Eristalomyia*). Type-locality: "Mexico". Distr. — same. Type ♀ BM(NH). N. COMB.
- FULWITARIS (Rondani), 1863:6 (*Eristalomyia*; nom. nov. for *rufitarsis* Macquart, 1855). Distr. — Colombia. N. COMB.
- rufitarsis* Macquart, 1855:109 (89) (*Eristalis*; preocc. Macquart, 1842). Type-locality: "Colombia". Type ♂ BM(NH).



- FUNEREA (Rondani), 1850b:358 (*Eristalis*). Type-locality: "America aequatoriali" [Ecuador, Rio Napo]. Distr. — same. Type ♀ MIZUN. N. COMB.
- funescens*, Williston, 1886:219, misspelling.
- FURCATA (Wiedemann), 1819:51 (*Eristalis*). Type-locality "Brazil". Distr. — Mexico (Durango), south to Peru and Argentina. Type ♂ VMNH\*. Ref. — Hull, 1925a:29 (description), pl. 2:11 (abdomen), 20 (mesonotum). N. COMB.
- femorata* Macquart, 1842:100 (40), pl. 3, fig. 6 (head) (*Eristalis*). Type-locality: Brazil, Rio de Janeiro. Type ♀ MNHN\*.
- tenebrica* Walker, 1849:601 (*Merodon*). Type-locality: ? Type ♀ BM(NH).
- florida* Walker, 1852:245 (*Eristalis*). Type-locality: "Brazil". Type ♂ BM(NH).
- FUSCIPENNIS (Macquart), 1846:256 (128), pl. 11, fig. 5 (wing) (*Eristalis*). Type-locality: "Surinam". Distr. — same. Type ♀ MRHNB. N. COMB.
- GENICULATA (Fabricius), 1805:237 (*Eristalis*). Type-locality: "America meridionali". Distr. — Surinam, Brazil. Type ♂ MC\*. N. COMB.
- fumipennis* Stephens, 1846:29, pl. 47:3 (habitus) (*Eristalis*). Type-locality: unknown. Type ♂ BM(NH). Ref. Verrall, 1901:672. N. SYN.
- GENICULOSA Thompson (nom. nov. for *geniculata* Bigot). Distr. — Argentina (Buenos Aires). NOM. NOV.
- geniculata* Bigot, 1883a:cxv (*Doliosyrphus*; preocc. Fabricius, 1805). Type-locality: Argentina, Buenos Aires. Types ♂ ♀ BM(NH).
- GLABELLA (Hull), 1942a:85 (*Eristalis*). Type-locality: Panama, Canal Zone, Summit. Distr. — same. Type ♀ MCZ\*. N. COMB.
- GUNDLACHI (Loew), 1866a:166 (1872b:40) (*Eristalis*). Type-locality: "Cuba". Distr. — same. Types ♂ ♀ MCZ. N. COMB.
- GUYANENSIS (Goot), 1964:213 (*Eristalis*; nom. nov. for *pygmaea* Macquart). Distr. — Surinam. N. COMB.
- pygmaea* Macquart, 1842:114 (54) (*Eristalis*; preocc. Zetterstedt, 1838). Type-locality: "Surinam". Type ♂ MNHN\*.
- HORTORUM (Fabricius), 1775:764 (*Syrphus*). Type-locality: "America". Distr. — West Indies, Cuba, Puerto Rico, St. Thomas. Type ? Kiel? (not found — JRV). Ref. — Williston, 1887b:173 (redescription), pl. 7:10 (wing); Hull, 1925a:41 (description), pl. 1:8 (abdomen). N. COMB.
- INCA (Bigot), 1880b:217 (*Eristalis*). Type-locality: "Peru". Distr. — same. Type ♂ BM(NH). N. COMB.
- INCERTA (Bigot), 1880b:220 (*Eristalomysia*). Type-locality: "Brazil". Distr. — same. Type ♀ OXF. N. COMB.
- INCUBUS (Hull), 1943f:29 (*Eristalis*). Type-locality: Brazil, Paraná, Curitiba. Distr. — same. Type ♀ Hull. N. COMB.
- INTERRUPTA (Fabricius), 1805:239 (*Eristalis*). Type-locality: "America meridionali". Distr. — same. Type ♂ MC\*. N. COMB.
- INVERSA (Wiedemann), 1830:161 (*Eristalis*). Type-locality: Surinam. Distr. — same. Type ♂ SMF\*. N. COMB.
- LANGI (Curran), 1934b:411 (*Eristalis*). Type-locality: Guyana, Kamakusa. Distr. — Guyana, Peru, Brazil (Mato Grosso). Type ♀ AMNH\*. N. COMB.
- MACULA (Sack), 1941:112 (1951:108) (*Eristalis*). Type-locality: Peru, Pachitea River. Distr. — Ecuador, Colombia, Peru. Types ♂ ♀ MD. N. COMB.



- stigmatica* Hull, 1944d:45 (*Eristalis*). Type-locality: Colombia, Atrato Valley. Type ♀ BM(NH)\*. N. COMB.
- MEIGENII (Wiedemann), 1830:177 (*Eristalis*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay, Argentina (Buenos Aires), Chile (Santiago — Malleco). Type ♂ VMNH\*. Ref. — Hull, 1925a:29 (redescription), figs. 12 (abdomen), 18 (mesonotum), 22 (head). N. COMB.
- quadraticornis* Macquart, 1842:111 (51), pl. 10, fig. 2 (head) (*Eristalis*). Type-locality: "Chile". Type ♀ MNHN\*.
- testaceiscutellata* Macquart, 1850:442 (138) (*Eristalis*). Type-locality: "Chile". Types ♂ MNHN\*.
- joveifrons* Thomson, 1869:491 (*Eristalis*). Type-locality: Argentina, Buenos Aires. Type ♀ NRS\*.
- MELANASPIS (Wiedemann), 1830:176 (*Eristalis*). Type-locality: "Brazil". Distr. — Brazil, Bolivia, Paraguay. Types ♂ VMNH & ZMB\*. Ref. — Hull, 1925b:287 (redescription). N. COMB.
- nigriscutellata* Macquart, 1848:201 (41) (*Eristalis*). Type-locality: "Brazil". Type ♂ MNHN\*.
- nigroscutellata*, Williston, 1886:318, Fluke, 1957:138, misspelling.
- volatica* Williston, 1888:280 (*Eristalis*). Type-locality: Brazil, Mato Grosso, Chapada; Corumbá; Rio de Janeiro. Types ♂ AMNH\*.
- MEXICANA (Macquart), 1847:75 (59) (*Eristalis*). Type-locality: "Mexico". Distr. — same. Type ♂ BM(NH). N. COMB.
- MINUTALIS (Williston), 1891:64, pl. 2:6 (habitus), 6a (head) (*Eristalis*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Tabasco), Honduras, Guatemala, Guyana, Colombia, Brazil. Types ♂ ♀ BM(NH). Ref. — Hull, 1925a: 42 (redescription). N. COMB.
- MIRABILIS (Hull), 1925b:305, pl. 2:11 (mesonotum) (*Eristalis*). Type-locality: Colombia, Vista Nieve. Distr. — Colombia. Type ♀ AMNH\*. N. COMB.
- MITIS (Curran), 1930c:11 (*Eristalis*). Type-locality: Panama, Canal Zone, Corozal. Distr. — Mexico (Veracruz), Panama. Type ♀ AMNH\*. N. COMB.
- MONTICOLA (Röder), 1892:9, fig. 1 (habitus) (*Eristalis*; nom. nov. for *montana* Röder). Distr. — Colombia. N. COMB.
- montana* Röder, 1886:263 (*Eristalis*; preocc. Williston, 1882). Type-locality: Colombia, Cordillera, Páramo, 3600 m. Types ? (Halle).
- NIGRIPENNIS (Macquart), 1855:108 (88) (*Eristalis*). Type-locality: "Colombia". Distr. — same. Type ♂ OXF. N. COMB.
- NIGRIPES (Wiedemann), 1830:165 (*Eristalis*). Type-locality: "Brazil". Distr. — Surinam, Brazil, Argentina. Type ♀ VMNH\*. N. COMB.
- OELIGUA (Curran), 1940:14 (*Eristalis*). Type-locality: Guyana, Mazaruni. Distr. — Guyana, Peru. Type ♂ AMNH\*. N. COMB.
- OBSOLETA (Wiedemann), 1830:175 (*Eristalis*). Type-locality: "Brazil". Distr. — Guatemala, Venezuela, Brazil. Types ♂ ♀ VMNH. Ref. — Hull, 1925b:306 (description); Bean, 1949:146, fig. 9 (male genitalia). N. COMB.
- ?*pachypoda* Bigot, 1880b:224 (*Eristalomyia*). Type-locality: "Mexico". Type ♀ BM(NH).
- OCHRACEA (Williston), 1888:279 (*Eristalis*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Mexico (Tabasco), Colombia, Guyana, Brazil (São Paulo, Mato Grosso). Type ♂ AMNH\*. N. COMB.
- alacris* Curran, 1934b:413 (*Eristalis*). Type-locality: Guyana, Kamakusa. Type ♀ AMNH\*.





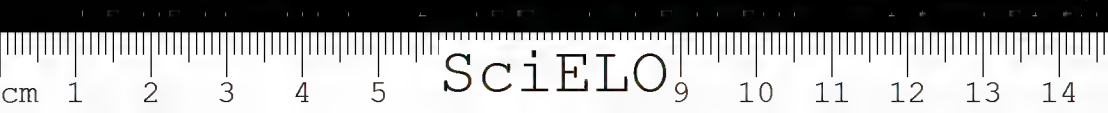
- ORNATA (Townsend), 1897a:21 (*Eristalis*). Type-locality: Mexico, Veracruz, Río Nautla, San Rafael. Distr. — U.S.A. (California), Mexico (Veracruz). Types ♂ BM(NH). N. COMB.
- PARVULA (Williston), 1888:282 (*Eristalis*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♀ AMNH\*. N. COMB.
- PENALTIS (Curran), 1934b:412 (*Eristalis*). Type-locality: Guyana, Kartabo. Distr. — same. Type ♂ AMNH\*. N. COMB.
- PRECIPUA (Williston), 1888:280 (*Eristalis*). Type-locality: Brazil, São Paulo; Mato Grosso, Chapada. Distr. — Brazil (São Paulo, Mato Grosso, Santa Catarina); Argentina (Formosa). Types ♂ ♀ AMNH\*. Ref. — Hull, 1925b:286 (description), pl. 1:8 (mesonotum). N. COMB.
- PUSILLA (Macquart), 1842:114 (54) (*Eristalis*). Type-locality: French Guiana, Mana River. Distr. — U.S.A. (Texas), Mexico, Cuba, Guatemala, Ecuador, Colombia, Argentina (Tucumán, Formosa). Type ♂ MNHN\*. Ref. — Hull, 1925a:36 (description), pl. 1:2 (abdomen). 2:17 (mesonotum); Bean, 1949:144, fig. 2 (male genitalia). N. COMB.
- annulipes* Macquart, 1842:109 (49) (*Eristalis*). Type-locality: Brazil, Rio de Janeiro. Types ♂ ♀ MNHN\*. N. SYN.
- tricolor* Jaennicke, 1867:400 (*Eristalis*; preocc. Meigen, 1803). Type-locality: "Mexico". Type ♀ SMF.
- PUSIO (Wiedemann), 1830:192 (*Eristalis*). Type-locality: "Brazil". Distr. — Puerto Rico, Ecuador, Brazil, Argentina. Type ♀ VMNH\*. Ref. — Curran, 1930c:13 (redescription). N. COMB.
- PUSIODES (Hull), 1951b:68 (*Eristalis*). Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull. N. COMB.
- PYGOLAMPA (Wiedemann), 1830:161 (*Eristalis*). Type-locality: "Brazil". Distr. — Guyana, Brazil, Paraguay, Argentina (Tucumán). Types ♂ VMNH & MC\*. Ref. — Hull, 1925b:304 (redescription). N. COMB.
- QUITENSIS (Macquart), 1855:109 (89) (*Eristalis*). Type-locality: Ecuador, Quito. Distr. — same. Type ♀ BM(NH)\*. N. COMB.
- RUFICEPS (Macquart), 1842:111 (51) (*Eristalis*). Type-locality: Colombia, Santa Fe de Bogotá. Distr. — Mexico, Colombia, Ecuador, Venezuela, Bolivia. Type ♂ MNHN\*. Ref. — Hull, 1925b:307 (description), pl. 2:10 (head). N. COMB.
- thoracica* Jaennicke, 1867:399 (*Eristalis*). Type-locality: "Mexico". Types ♂ ♀ SMF.
- RUFIPEDES Thompson (nom. nov. for *rufipes* Macquart). Distr. — Brazil. NOM. NOV.
- rufipes* Macquart, 1842:102 (42) (*Eristalis*; preocc. Fabricius, 1805). Type-locality: Brazil, "parte meridionale des Campos Geraes". Type ♀ MNHN\*.
- RUFIVENTRIS (Macquart), 1846:257 (129) (*Eristalis*). Type-locality: "Colombia". Distr. — U.S.A. (Texas), Mexico, Guatemala, Honduras, Colombia, Ecuador, Peru, Brazil, Argentina (Formosa, Tucumán). Type ♂ MNHN? (not found — JRV). Ref. — Hull, 1925a:33 (description), pl. 1:4 (abdomen). N. COMB.
- praeclarus* Giglio-Tos, 1892c:5 (*Eristalis*). Type-locality: Mexico, Tuxpango. Type ♂ UTOR\*.
- RUFOSCUTELLATA (Sack), 1921:142, fig. 16 (head) (*Eristalis*). Type-locality: Paraguay, St. Trinidad. Distr. — Brazil (São Paulo, Santa Cata-

- rina, Paraná), Paraguay, Argentina (Tucumán). Types ♂ ♀ DEI & SMF\*. N. COMB.
- cyatheus* Hull, 1925b:287, pl. 1:9 (mesonotum), 2:13 (head) (*Eristalis*). Type-locality: Brazil, São Paulo, São Sebastião. Type ♀ AMNH\*. N. SYN.
- SCHISTACEA (Williston), 1888:282 (*Eristalis*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♀ AMNH (lost — FCT). N. COMB.
- SCOPANTHUS (Hull), 1944j:45 (*Eristalis*). Type-locality: Peru, Lima. Distr. — same. Type ♂ CU. N. COMB.
- SCUTELLARIS (Fabricius), 1805:190 (*Milesia*). Type-locality: "America meridionali". Distr. — U.S.A. (New Mexico), south to Brazil. Type ♀ MC\*. Ref. — Hull, 1925b:291 (description), pl. 2:16, 19 (head); Doesburg, 1963: 23, fig. 1 (habitus), 1a (head), 1b (hind leg), 2, 4 (puparium), 3 (habitus). N. COMB.
- scutellata* Macquart, 1834:513, pl. 11, fig. 19 (mouthparts). Type-locality: "Brazil". Types ♂ ♀ MNHN\*. N. SYN.
- ?*angustata* Rondani, 1848:70 (*Eristalis*). Type-locality: "Brazil". Type ♀ MIZUN.
- ?*cognata* Rondani, 1848:69 (*Eristalis*; preocc. Wiedemann, 1824). Type-locality: "Brazil". Type ♂ MIZUN.
- cyaneifera* Walker, 1849:621 (*Eristalis*). Type-locality: ? Type ? BM(NH).
- limbatinevris* Macquart, 1850:441 (137) (*Eristalis*). Type-locality: "Brazil". Types ♂ OXF\*. N. SYN.
- ?*fascithorax* Macquart, 1850:443 (139) (*Eristalis*). Type-locality: "Amérique". Types ♂ ♀ MNHN\*.
- ?*agnata* Rondani, 1850b:358 (*Eristaliss* nom. nov. for *cognata* Rondani).
- ?*scutellata* Bigot, 1883a:cxx (*Doliosyrphus*; preocc. Macquart, 1834). Type-locality: "Panama". Types ♂ ♀ BM(NH).
- bimaculata* Bigot, 1883b:222 (*Priomerus*). *Nomen nudum*.
- rileyi* Williston, 1887b:178 pl. 8:8 (head) (*Doliosyrphus*). Type-locality: U.S.A., New Mexico. Types ♂ USNM.
- SEMICIRCULUS (Walker), 1852:249 (*Eristalis*). Type-locality: "Honduras". Distr. — same. Type ♂ BM(NH). N. COMB.
- SOLENNIS (Walker), 1852:245 (*Eristalis*). Type-locality: ? Distr. — Mexico (Yucatán), Brazil, Argentina (Formosa, Tucumán, Río Negro). Type ♂ BM(NH)\*. N. COMB.
- agrorum*, Hull, 1925b:289, pl. 1:3 (abdomen), misidentification.
- mus* Curran, 1930c:21 (*Eristalis*). Type-locality: Brazil, Mato Grosso, Corumbá. Type ♂ AMNH\*. N. SYN.
- SPECTABILIS (Hull), 1925b:289, pl. 1, fig. 2 (abdomen) (*Eristalis*). Type-locality: Venezuela, Caura Valley. Distr. — Venezuela, Guyana, Peru. Type ♀ MCZ\*. N. COMB.
- TAENIA (Wiedemann), 1830:174 (*Eristalis*). Type-locality: Uruguay, Montevideo. Distr. — Colombia, Venezuela, Brazil (São Paulo, Rio de Janeiro), Uruguay, Argentina (Formosa, Tucumán, Santa Fe, Córdoba). Types VMNH\* & ZMB. Ref. — Hull, 1925a:38 (description); Curran, 1930c:13 (descriptive notes). N. COMB.
- TATEI (Curran), 1930c:9 (*Eristalis*). Type-locality: Venezuela, Mt. Duida. Distr. — same. Type ♂ AMNH\*. N. COMB.
- TESTACEICORNIS (Macquart), 1850:442 (138) (*Eristalis*). Type-locality: "Mexico". Distr. — U.S.A. (California, Arizona), Mexico, Panama,

- Colombia, Venezuela, Trinidad, Ecuador, Peru. Types ♀ OXF<sup>2</sup>. N. COMB.
- sackenis* Bigot, 1880b:224 (*Eristalis*). Type-locality: "Mexico". Type ♀ BM(NH)\*. N. SYN.
- sumischraști* Giglio-Tos, 1892d:1 (*Eristalis*). Type-locality: Mexico, Tehuacán. Type ♂ UTOR\*. N. SYN.
- sumichraști*, Giglio-Tos, 1893:6, Aldrich, 1905:389, Kertész, 1910:237, Fluke, 1957:143, emendation.
- THALIA (Hull), 1942a:86 (*Eristalis*). Type-locality: Colombia, Dept. Cundinamarca, Bogotá, 2600 m. Distr. — same. Type ♂ MCZ\*. N. COMB.
- TRIANGULARIS (Giglio-Tos), 1892c: (*Eristalis*). Type-locality: Mexico, Cuautla. Distr. — U.S.A. (California), Mexico, Cuba, Trinidad, Guatemala, Brazil. Type ♀ UTOR\*. Ref. — Hull, 1925a:35 (description), pl. 2:19 (mesonotum). N. COMB.
- TRIGONA (Williston), 1891:61, pl. 2:4 (habitus), 4a (head) (*Eristalis*). Type-locality: Mexico, Guerrero, Xucumanatlán, 7000 ft.; Omiltemi, 8000 ft. Distr. — Mexico (Durango, Guerrero). Types ♂ ♀ BM(NH). N. COMB.
- atropos* Giglio-Tos, 1892d:1 (*Eristalis*). Type-locality: "Mexico". Type ♂ UTOR\*. N. SYN.
- UROTAENIA (Curran), 1930c:15 (*Eristalis*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Surinam, Ecuador, Peru, Brazil (Mato Grosso). Type ♂ AMNH\*. N. COMB.
- VERA (Hull), 1949g:120 (*Eristalis*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ Hull. N. COMB.
- VIERECKI (Curran), 1930c:10 (*Eristalis*). Type-locality: Colombia, Vista Nieve. Distr. — Colombia, Bolivia. Type ♂ AMNH. N. COMB.
- VINETORUM (Fabricius), 1798:562 (*Syrphus*; as *vinctorum*, emended by Fabricius, 1799:48). Type-locality: "America Insulis". Distr. — U.S.A. (Wisconsin to Pennsylvania), south to Brazil and Argentina (Misiones, Formosa); Galápagos, Cuba, Haiti, Puerto Rico, Virgin Islands, Trinidad. Type Kiel (lost, Zimsen, 1964:478). Ref. — Williston, 1887b:171 (redescription), pl. 7:8a (hind leg); Hull, 1925a:40 (description), pl. 1:9 (abdomen); Bean, 1949:146, fig. 8 (male genitalia). N. COMB.
- ?*surinamensis* Degger, 1776:145, pl. 29, fig. 1 (habitus) (*Musca*). Type-locality: "Surinam". Type ? NRS [lost, Persson, in litt.].
- trifasciata* Say, 1830:165 (*Eristalis*). Type-locality: "Mexico". Type ? lost.
- uvarum* Walker, 1849:623 (*Eristalis*). Type-locality: "Jamaica". Types ♀ BM(NH).
- soulouguensis* Bigot, 1880b:228 (*Eristalis*). Type-locality: "Haiti". Type ♀ BM(NH).
- hirtipes* Bigot, 1883a:cxxi (*Doliosyrphus*). Type-locality: Panama. Type ♀ BM(NH)\*. N. SYN.
- trilimbata* Giglio-Tos, 1892c:5 (*Eristalis*). Type-locality: Mexico, Tampico. Type ♀ UTOR\*. N. SYN.

#### Genus MEROMACRUS Rondani

*Plagiocera* Macquart, 1842:119 (59) (preocc. Klug. 1834). Type-species, *Milesia cruciger* Wiedemann (orig. des.) = *acutus* (Fabricius).



- MEROMACRUS Rondani, 1848:70. Type-species, *ghilianii* Rondani (mon.).  
*Pteroptila* Loew, 1866a:165 (1872b:39). Type-species, *decorus* Loew (Coquillett, 1910a:598).
- Promilesia* Lynch Arribálzaga, 1892a:241 (1892c:97). Type-species, *nectarinoides* Lynch Arribálzaga (mon.). N. SYN.
- Metameromacrus* Hull, 1942e:1. no type-species designated. *Nomen nudum*.
- Thalamopales* Hull, 1949d:401. Type-species, *Helophilus scitus* Walker (orig des.).  
 Refs. — Sack, 1920 (rev., key); Hull, 1942e (rev., key).
- ABDOMINALIS Sack, 1920:261, fig. y (mesonotum). Type-locality: Peru.  
 Distr. — same. Type ♀ MD.
- ACUTUS (Fabricius), 1805:189 (*Milesia*). Type-locality: U.S.A., "Carolina".  
 Distr. — U.S.A. (Virginia to Florida & Texas), Mexico, Guatemala, British Honduras, Cuba. Types ? lost [Zimsen, 1964:473].  
 Ref. — Williston, 1887b:180 (redescription), pl. 8:1 (wing), 1a (abdominal tip), 1b (hind leg), 1c (head); Sack, 1920:260 (description); fig. c' (mesonotum); Hull, 1942e:11, figs. 9 & 10 antenna).
- cruciger* Wiedemann, 1830:105 (*Milesia*). Type-locality: Georgia.  
 Types ♂ ♀ VMNH?
- crucifer*, Bigot, 1857b:337, misspelling.
- millesiformis* Macquart, 1834:500 (*Mallota*). Type-locality: Cuba.  
 Type ♂ (Lille?).
- milesiformis*, Fluke, 1957:147, misspelling.
- maculatus* Macquart, 1850:451 (147), pl. 14, fig. 2 (wing) (*Milesia*).  
 Type-locality: "Afrique" [error?] Type ♀ MNHN.
- AEMULUS (Williston), 1888:283 (*Pteroptila*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Types ♂ AMNH\*. Ref. — Sack, 1920:260 (description), figs. w (wing), x (mesonotum).
- ANNA Curran, 1936a:4. Type-locality: Panama, Canal Zone, Fort Randolph.  
 Distr. — Panama, Guyana, Peru, Brazil. Type ♂ AMNH\*.
- AURIFER Hull, 1942e:4, fig. 12 (mesonotum). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- BASIGER (Walker), 1860:290 (*Eristalis*). Type-locality: "Amazon Region".  
 Distr. — Brazil, Argentina (Tucumán). Type ♀ BM(NH). Ref. — Sack, 1920:270 (description), figs. d' (head), f' (mesonotum).
- milesioides* Bigot, 1880b:226 (*Eristalomyia*). Type-locality: "Brazil".  
 Type ♂ BM(NH).
- BRUNERI Curran, 1936a:2. Type-locality: "Cuba". Distr. — same. Type ♀ AMNH\*.
- BRUNNEUS Hull, 1942e:9, fig. 8 (antenna). Type-locality: Guyana, Wismar.  
 Distr. — same. Type ♂ AMNH\*.
- CANUSIUM (Walker), 1849:566 (*Milesia*). Type-locality: "Cape of Good Hope" (error, Hull, 1942e:9). Distr. — Mexico (Nayarit). Type ♀ BM(NH). Ref. — Hull, 1942e:9 (description), fig. 1 (mesonotum).
- CERES Hull, 1942b:11. Type-locality: "Brazil". Distr. — same. Type ♂ Hull.
- CINCTUS (Drury), 1770:109, pl. 45, fig. 6; (index to vol. 1, p. [2]; 1773) (*Musca*). Type-locality: "Jamaica". Distr. — West Indies. Type ? ?  
 Ref. — Williston, 1887b:182 (redescription); Sack, 1920:265 (description).
- pinguis* Fabricius, 1775:763 (*Syrphus*). Type-locality: "America"  
 Type ? ? [Zimsen, 1964:478].
- ania* Walker, 1849:564 (*Milesia*). Type-locality: "Jamaica". Type ♀ BM (NH).



- CIRCUMDATUS (Bigot), 1875:471 (*Sphixea*). Type-locality: "Colombia". Distr. — Peru, Colombia. Type ♀ OXF. Ref. — Sack, 1920:263 (description), fig. b' (mesonotum).
- CURRANI Hull, 1942e:5, fig. 7 (antenna). Type-locality: "British Honduras". Distr. — same. Type ♀ AMNH\*.
- DECORUS (Loew), 1866a:165 (1872b:39) (*Pteroptila*). Type-locality: "Cuba". Distr. — same. Types ♂ ♀ MCZ. Ref. — Williston, 1887b:181 (redescription); Sack, 1920:270 (description).
- DRACO Hull, 1942e:6. Type-locality: Guatemala, Quirigua. Distr. — U.S.A. (Arizona, Texas); Guatemala, British Honduras, Costa Rica. Type ♂ USNM.
- FLAVOLINEA Hull, 1949g:131. Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull.
- FLUKEI Curran, 1936a:3. Type-locality: West Indies, St. Vincent. Distr. — Virgin Islands. Type ♂ AMNH\*.
- FUCATUS Hull, 1930:143. Type-locality: Surinam, Paramaribo. Distr. — same. Type ♀ ANSP. Ref. — Hull, 1942e:11, fig. 11 (mesonotum).
- GHILIANII Rondani, 1848:71, figs. 3-5 (head), 4 (antenna). Type-locality: "Brazil". Distr. — same. Type ♂ MIZUN.
- HINEI Hull, 1942e:4. Type-locality: Peru, Middle Rio Marañón. Distr. — same. Type ♂ AMNH\*.
- LACONICUS (Walker), 1852:227 (*Milesia*). Type-locality: "Brazil". Distr. — same. Type ♀ BM(NH). N. COMB.
- LINEASCRIPTA Hull, 1937a:170, fig. 10 (mesonotum & abdomen). Type-locality: Bolivia, Beni, Ivon. Distr. — same. Type ♂ USNM.
- MATILDA Hull, 1949g:127. Type-locality: Peru, Pucallpa. Distr. — same. Type ♀ Hull.
- MELMOTH Hull, 1937b:12. Type-locality: Bolivia, Prov. of Sara. Distr. — same. Type ♂ MCZ.
- MILESIA Hull, 1942e:2. Type-locality: "French Guiana". Distr. — same. Type ? Hull?
- NECTARINOIDES (Lynch Arribálzaga), 1892a:243 (1892c:99), fig. 10 (head) (*Promilesia*). Type-locality: Argentina, Chaco; Misiones, Santa Ana & Mocona. Distr. — Brazil (Santa Catarina); Paraguay, Argentina (Tucumán, Buenos Aires, Chaco, Misiones). Types ? MACN. N. COMB.
- cingulatus* Sack, 1920:259. Type-locality: Brazil, Rio Grande do Sul, Santa Cruz. Types ♂ ♀ HZM & SMF\*. N. SYN.
- NIGER Sack, 1920:264 [also, 1921:145]. Type-locality: Bolivia, Paraguay, St. Trinidad. Distr. — Guyana, Brazil, Bolivia, Paraguay, Argentina (Tucumán, Misiones). Types MD, DEI & SMF\*.
- ?*funereus* Shannon & Aubertin, 1933:163. Type-locality: Argentina, Misiones Terr., Posadas. Type ♂ BM(NH)\*.
- OBSCURUS Hine, 1924:21. Type-locality: Guatemala, Los Amates. Distr. — same. Type ♂ OhSU.
- OPULENTUS (Bigot), 1883b:336 (*Eristalis*). Type-locality: "Cuba". Distr. — same. Type ♀ BM(NH). Ref. — Sack, 1920:267 (description); Hull, 1942e:10, figs. 2 (abdomen), 3 (mesonotum).
- PACHYPUS (Wiedemann), 1830:171 (*Eristalis*; nom. nov. for *crassipes* Fabricius). Distr. — Brazil (São Paulo, Mato Grosso). Ref. — Sack, 1920:262 (descriptive note), figs. z (head), a' (mesonotum); Hull, 1942c:11, fig. 6 (mesonotum). N. COMB.
- crassipes* Fabricius, 1805:196 (*Merodon*; preocc. Fabricius, 1805:237). Type-locality: "America meridionali". Type ♂ MC\*.

- simplex* Schiner, 1868:365 (*Plagiocera*). Type-locality: "Brazil". Type ♂ VMNH. N. SYN.
- PLUTO Hull, 1942e:7, fig. 13 (antenna). Type-locality: Peru, Middle Rio Ucayali. Distr. — same. Type ♂ AMNH\*.
- POTENS Curran, 1932a:8. Type-locality: Cuba, Sierra Maestra, B. de Joaquin. Distr. — same. Type ♂ AMNH\*. Ref. — Hull, 1942e:11, fig. 4 (antenna).
- PRATORUM (Fabricius), 1775:765 (*Syrphus*). Type-locality: "America". Distr. — Panama, Guyana, Ecuador, Paraguay, Brazil, Argentina. Type ? Kiel (not found — JRV). Refs. — Sack, 1920:268 (description), fig. e' (mesonotum); Sack, 1921:143 (description), figs. 17 (mesonotum), 18a (larva), 19 (puparium), 20 (anal organ).
- panamensis* Curran, 1930f:11. Type-locality: Panama, Canal Zone, Barro Colorado. Type ♂ AMNH\*.
- RUFICRUS (Wiedemann), 1830:105 (*Milesia*). Type-locality: "Cuba". Distr. — U.S.A. (Florida); Cuba. Type ♀ ZMB. Ref. — Williston, 1887b:181 (redescription); Sack, 1920:268 (redescription); Hull, 1942e:11, fig. 5 (antenna).
- SCITUS (Walker), 1857:152 (*Helophilus*). Type-locality: "Valley of Amazon". Distr. — same. Type ♀ BM(NH)\*. Ref. — Hull, 1949d:390, fig. 241 (head).
- STRIGULUS Hull, 1942e:8. Type-locality: Peru, Middle Rio Ucayali. Distr. — same. Type ♀ AMNH\*.
- UNICOLOR (Wulp), 1883:131, figs. 11 (habitus), 12,12 (head) (*Eristalis*). Type-locality: "Guadeloupe". Distr. — same. Type ♀ ML? [not found — JRV].
- VILLOSUS Hull, 1949g:129. Type-locality: Peru, Pucallpa. Distr. — same. Type ♂ Hull.
- ZONATUS (Loew), 1866a:165 (1872b:39) (*Pteroptila*). Type-locality: "Mexico". Distr. — same. Type ♂ MCZ. Ref. — Williston, 1887b:182 (redescription); Sack, 1920:266 (description).
- var. LOEWI (Williston), 1892:67 (*Pteroptila*). Type-locality: Panama, Volcan de Chiriqui. Distr. — same. Type ♀ BM(NH).

#### Tribe MILESIINI

Ref. — Shannon, 1926a (rev., keys)

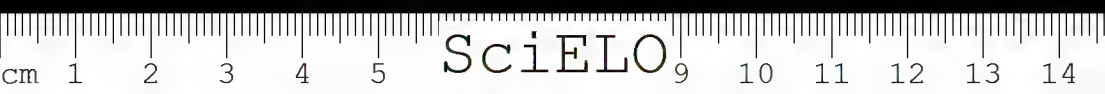
#### Genus XYLOTA Meigen

- Zelima* Meigen, 1800:34. Type-species, *Musca segrnis* Linnaeus (Coquillett, 1910a:621). Suppressed by I.C.Z.N., 1963:339.
- Helophilus* Meigen, 1803:273. Type-species, *Musca sylvarum* Linnaeus (mon.).
- Eumeros* Meigen, 1803:273. Type-species, *Musca segrnis* Linnaeus (Coquillett, 1910a:541).
- XYLOTA Meigen, 1822:211 (nom. nov. for *Helophilus*). Type-species, *Musca sylvarum* Linnaeus (aut.) [In order to preserve established usage, we have followed Wirth, et al., 1965:604, in using *Xylota* instead of its senior synonyms, *Helophilus* and *Eumeros*.]
- ANALIS Williston, 1887b:226. Type-locality: U.S.A., California & New Mexico. Distr. — Canada (British Columbia) to U.S.A. (Colorado), south to Mexico (Durango). Types ♂ ♀ USNM.

- AZUREA (Fluke), 1953a:126 (*Heliophilus*). Type-locality: U.S.A., New Mexico, Clouderoft. Distr. — U.S.A. (New Mexico); Mexico (Durango). Type ♂ UK.
- BRACHYGASTER Williston, 1892:72. Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft. Distr. — same. Type ♂ BM(NH).
- FLAVIFRONS Walker, 1849:557. Type-locality: Canada, Ontario, Hudson's Bay, Albany River, St. Martin's Falls. Distr. — Alaska to Labrador, south to Canada (British Columbia) and U.S.A. (Pennsylvania); ?Mexico [Giglio-Tos, 1893:26, as *communis* Walker]. Types ♂ ♀ BM(NH).
- communis* Walker, 1849:557. Type-locality: Canada, Ontario, Hudson's Bay, Albany River, St. Martin's Falls. Types ♂ ♀ BM(NH).
- NITIDULA (Fluke), 1939:368, fig. 8 (abdomen) (*Heliophilus*). Type-locality: Mexico, Mexico City, 10,000 ft. Distr. — same. Type ♂ AMNH\*.
- PIGRA (Fabricius), 1794:295 (*Syrphus*). Type-locality: "Germany". Distr. — Holarctic; Canada (British Columbia to Quebec), south to U.S.A. (California to Florida); ?Mexico [Wirth, *et. al.*, 1965:607]. Type ? lost (Zimsen, 1964:473).
- PRETIOSA Loew, 1861:39. Type-locality: "Cuba". Distr. — same. Type ♂ MCZ. Ref. — Williston, 1887b:237 (redescription).
- STENOGASTER Williston, 1892:72. Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft. Distr. — same. Types ♂ ♀ BM(NH).
- WILLISTONI (Goot), 1964:214 (*Heliophilus*; nom. nov. for *rufipes* Williston). Distr. — Mexico.
- rufipes* Williston, 1892:71 (preocc. Loew, 1873). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft. Types ♂ ♀ BM(NH).

#### Genus NEPLAS Porter

- Planes* Rondani, 1863:9 (preocc. Bowditch, 1825; Saussure, 1862). Type-species, *Xylota vagans* Wiedemann (mon.).
- NEPLAS Porter, 1927b:96 (nom. nov. for *Planes* Rondani). Type-species, *Xylota vagans* Wiedmann (aut.). Ref. — Curran, 1941 (key).
- ARIEL (Curran), 1941:302 (*Planes*). Type-locality: Brazil São Paulo. Distr. — same. Type ♀ AMNH\*.
- ARMATIPES (Curran), 1941:300 (*Planes*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♂ AMNH\*.
- AZTECA (Curran), 1941:303 (*Planes*). Type-locality: Honduras, Puerto Castilla. Distr. — same. Type ♀ AMNH\*.
- BIDENS (Curran), 1941:300 (*Planes*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Mato Grosso, Santa Catarina). Type ♂ AMNH\*.
- BOLIVIENSIS (Shannon), 1926a:44 (*Planes*). Type-locality: Bolivia, Huachi, Beni. Distr. — same. — Type ♂ USNM.
- CHLOROPS (Hull), 1948b:7 (*Planes*). Type-locality: Venezuela, San Esteban. Distr. — same. Type ♂ USNM.
- CHRYSOPRESSA (Hull), 1941d:158 (*Planes*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ Hull.
- CUPRESCENS (Hull), 1941d:159 (*Planes*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ Hull.
- FRONTALIS (Curran), 1941:302 (*Planes*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — same. Type ♂ AMNH\*.
- GRANDIFEMORALIS (Curran), 1934b:402, fig. 28 (hind femur) (*Planes*). Type-locality: Guyana, Kartabo. Distr. — same. Type ♂ AMNH\*.



- GRISEA (Hull), 1941e:281 (*Planes*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ Hull.
- LYRICA (Curran), 1941:301 (*Planes*). Type-locality: Panama, Canal Zone, Corozal. Distr. — same. Type ♂ AMNH\*.
- MINOR (Shannon), 1926a:44 (*Planes*). Type-locality: Bolivia, Ivón, Beni. Distr. — same. Type ♀ USNM.
- PACHYMERIA (Loew), 1866a:162 (1872b:36) (*Xylota*). Type-locality: "Cuba". Distr. — Cuba, Puerto Rico. Type ♀ MCZ. Ref. — Williston, 1887b:237 (redescription).
- PALITARSIS (Curran), 1934b:404 (*Planes*). Type-locality: Guayana, Kartabo. Distr. — same. Type ♂ AMNH\*.
- PANAMENA (Curran), 1941:301 (*Planes*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ AMNH\*.
- PAUXILLA (Williston), 1892:71, pl. 2:9 (habitus), 9a (head), 9b (hind leg) (*Xylota*). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft.; Xucumanatlán, 7000 ft. Distr. — same. Types ♂ ♀ BM(NH).
- PROXIMA (Hull), 1944c:38 (*Planes*). Type-locality: "West Indies?". Distr. — same. Type ♀ MCZ.
- PUMA (Curran), 1941:303 (*Planes*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ AMNH\*.
- RONDANII (Shannon), 1926a:14 (*Planes*). Type-locality: Costa Rica, San Mateo, Higuito. Distr. — same. Type ♂ USNM.
- SAPPHIRINA Hull, 1951c:185. Type-locality: Peru, Chanchamayo. Distr. — same. Type ♂ Hull.
- SCHILDII (Shannon), 1926a:15 (*Planes*). Type-locality: Costa Rica, San Mateo, Higuito. Type ♂ USNM.
- SMARTI (Curran), 1941:302 (*Planes*). Type-locality: Guyana, Kaieteur. Distr. — same. Type ♂ BM(NH)\*.
- VAGABONDANS (Hull), 1941c:62 (*Planes*). Type-locality: Colombia, Restrepo. Distr. — same. Type ♂ Hull.
- VAGANS (Wiedemann), 1830:101 (*Xylota*). Type-locality: Brazil. Distr. — Panama, Guyana, Brazil (Pará). Type ♀ VMNH.  
*americana* Schiner, 1868:367 (*Syritta*). Type-locality: "South America". Type ♂ VMNH\*.  
*mexicana* Bigot, 1884a:539 (*Syritta*). Type-locality: "Mexico". Type ♂ BM(NH)\*.
- VALERIA (Hull), 1941e:282 (*Planes*). Type-locality: Brazil, São Paulo. Distr. — same. Type ♂ Hull.
- WILLISTONI (Shannon), 1926a:14 (*Planes*). Type-locality: Mexico, Sierra Madre, Chihuahua, about 7300 ft. Distr. — same. Type ♂ USNM.

#### Genus CERIOGASTER Williston

- CERIOGASTER Williston, 1888:285. Type-species, *fascithorax* Williston (mon.).  
*Zonemyia* Shannon, 1925a:109. Type-species, *spinosa* Shannon (orig. des.).
- ARETHUSA Hull, 1944j:42. Type-locality: Surinam, Paramaribo, Agricultural Station 'Wolfenbuttel'. Distr. — same. Type ♂ CU\*.
- AUREOPILA Hull, 1941h:314. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♀ Hull.
- FASCITHORAX Williston, 1888:286 (as *foscithorax*; emendation by Kertész, 1910:308; Curran, 1930f:10). Type-locality: Brazil, Mato Grosso: Corumbá & Rio de Janeiro. Distr. — same. Types ♂ ♀ AMNH\*.  
*fuscithorax*, Shannon, 1926a:50, misspelling.  
*foscithorax*, Shannon, 1927a:6, misspelling.



- FUNEBRIS Hull, 1944b:11. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — same. Type ♂ BM(NH).
- HINEI Thompson (nom. nov. for *transversa* Hine). Distr. — Honduras. NOM. NOV.
- transversa* Hine, 1913:208 (*Myiolepta*; preocc. Walker, 1857). Type-locality: Honduras, Puerto Cortez. Type ♂ OhSU.
- LATITARSATA (Macquart), 1842:133 (73), pl. 14, fig. 1 (habitus), 1a (head) (*Xylota*). Type-locality: "South America". Distr. — same. Type ♂ MNHN. N. COMB.
- PANAMENSIS Curran, 1930f:10. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — same. Type ♂ AMNH\*.
- RUDIS Hull, 1944j:43. Type-locality: Panama, Changuinola Dist. Distr. — same. Type ♂ CU.
- SCUTELLATA Curran, 1934b:405. Type-locality: Guyana, Kartabo. Distr. — same. Type ♂ AMNH\*.
- SPINOSA (Shannon), 1925a:109 (*Zonemyia*). Type-locality: Panama, Trinidad River. Distr. — same. Type ♂ USNM.
- TRANSVERSA (Walker), 1857:153 (*Syritta*). Type-locality: "Valley of Amazon". Distr. — same. Type ♂ BM(NH).

#### Genus MACROMETOPIA Philippi

- MACROMETOPIA Philippi, 1865:740. Type-species, *atra* Philippi (mon.).
- ATRA Philippi, 1865:740. Type-locality: Chile, Corral. Distr. — Chile (Santiago — Bío Bío), Argentina (Neuquén). Type(s) ? MNHNS. Ref. — Hull, 1949d:365, fig. 22i (head).

#### Genus STERPHUS Philippi

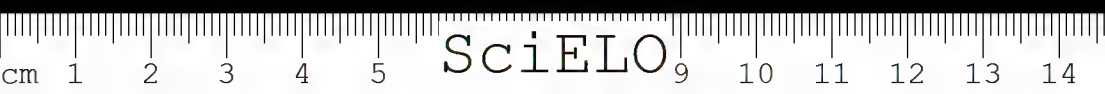
- STERPHUS Philippi, 1865:737. Type-species, *autumnalis* Philippi (mon.) = *coeruleus* Rondani.
- Stherphus*, Fluke, 1957:106, misspelling.

#### Subgenus STERPHUS Philippi

- AURIFRONS Shannon, 1926a:46. Type-locality: Chile, Juan Fernández Islands. Distr. — same. Type ♂ BM(NH).
- COERULEUS (Rondani), 1863:8 (*Xylota*). Type-locality: "Chile". Distr. — Chile, Argentina (Neuquén). Type ♂ MIZUN. Ref. — Shannon & Aubertin, 1933:155, fig. 33 (head).
- autumnalis* Philippi, 1865:782. Type-locality: Chile, Prov. Valdivia. Type(s) ? MNHNS.
- antennalis* Philippi, 1865:737, incorrect original spelling (1st revisor, Lynch Arribálzaga, 1892b:191).
- aurifacies* Schiner, 1868:360 (*Xylota*). Type-locality: "Chile". Types ? VMNH\*. N. SYN.

#### Subgenus CREPIDOMYIA Shannon

- CREPIDOMYIA Shannon, 1926a:47 (as genus). Type-species, *tricrepis* Shannon (orig. des.).



- Tatuomyia* Shannon, 1926a:48 (as genus). Type-species, *batesi* Shannon (orig. des.).
- Senoceria* Hull, 1930:144 (as genus). Type-species, *spinifemorata* Hull (orig. des.) = *coarctatus* Wiedemann.
- Mutillimya* Hull, 1943b:139 (as genus). Type-species, *Ceriogaster auricaudata* Williston (orig. des.).
- Willistonimya* Hull, 1943b:140, incorrect original spelling of *Mutillimya* Hull.
- AURICAUDATUS (Williston), 1892:73, pl. 2:10 (habitus), 10a (head) (*Cerogaster*). Type-locality: Mexico, Guerrero, Omiltemi, 8000 ft. Distr. — same. Types ♂ ♀ BM(NH)\*. N. COMB.
- BATESI (Shannon), 1926a:48 (*Tatuomyia*). Type-locality: Brazil, Amazonas, Tefé (as Ega.) Distr. — same. Type ♂ BM(NH). N. COMB.
- CHLOROPYGA (Schiner), 1868:366 (*Xylota*). Type-locality: "Columbien". Distr. — same. Types ♂ ♀ VMNH\*. N. COMB.
- COARCTATUS (Wiedemann), 1830:100 (*Xylota*). Type-locality: "Brazil". Distr. — Panama, Brazil. Type ♀ SMF\*. N. COMB.
- spinifemoratus* Hull, 1930:146, figs. 2 (mesonotum), 5 (head), 6 (hind leg) (*Senoceria*). Type-locality: "Brazil". Type ♂ ANSP\*.
- CYBELE (Hull), 1951c:184 (*Crepidomyia*). Type-locality: Peru, Chanchamayo. Distr. — Colombia, Peru. Type ♀ Hull\*. N. COMB.
- GENUINUS (Williston), 1888:284 (*Xylota*). Type-locality: Brazil, Rio de Janeiro. Distr. — Peru, Brazil, Argentina (Tucumán). Type ♀ AMNH\*. Ref. — Fluke, 1950b:449, fig. (male genitalia). N. COMB.
- PLAGIATUS (Wiedemann), 1830:98 (*Xylota*). Type-locality: "Brazil". Distr. — Guyana, Peru, Brazil (Amapá, Amazonas). Type ♀ VMNH. N. COMB.
- TINCTUS (Fluke), 1950b:453, figs. 20 (head), 21 (wing) (*Crepidomyia*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — same. Type ♀ AMNH\*. N. COMB.
- TRICREPIS (Shannon), 1926a:47 (*Crepidomyia*). Type-locality: Peru, Río Charape. Distr. — Cuba, Peru, Bolivia. Type ♂ USNM\*. N. COMB.
- darlingtoni* Hull, 1944c:40 (*Crepidomyia*). Type-locality: Cuba, Eastern Oriente, Mounts north of Imías, 3-4000 ft. Type ♂ MCZ\*. N. SYN.
- ?dion* Hull, 1951c:183 (*Crepidomyia*). Type-locality: Peru, Chanchamayo. Type ♀ Hull\*. N. SYN.

#### Genus ODYNEROMYIA Shannon & Aubertin

- ODYNEROMYIA Shannon & Aubertin, 1933:156. Type-species, *Doros odyneroides* Philippi (orig. des.).
- ODYNEROIDES (Philippi), 1865:747 (*Doros?*). Type-locality: Chile, Corral. Distr. — Chile, Argentina (Neuquén). Type(s) ? MNHNS.
- VALDIVIFORMIS Shannon & Aubertin, 1933:157. Type-locality: Argentina, Peulla. Type ♂ USNM.

#### Genus VALDIVIOMYIA Vockeroth, nom. nov.

- Valdivia* Shannon, 1927a:31 (preocc. White, 1847; Ragonot, 1888). Type-species, *darwini* Shannon (orig. des.).
- Voldivia*, Shannon, 1927a:32, incorrect original spelling [in combination of *Voldivia darwini*].

- VALDIVIOMYIA Vockeroth, nom. nov. for *Valdivia* Shannon. Type-species, *Valdivia darwini* Shannon (aut.).  
Ref. — Sedman, 1965 (key).
- CAMRASI (Sedman), 1965:199, figs. 5 (head), 6-8 (male genitalia) (*Valdivia*). Type-locality: Chile, Icalma. Distr. — same. Type ♂ USNM. N. COMB.
- DARWINI (Shannon), 1927a:32 (*Voldivia*). Type-locality: Chile, Valdivia. Distr. — Chile (Bío Bío — Chiloé). Type ♂ BM(NH). Ref. — Sedman, 1965:197 (description of male), figs. 1-2 (head), 3-4 (male genitalia). N. COMB.
- EDWARDSI (Shannon & Aubertin), 1933:150 (*Valdivia*). Type-locality: Argentina, Puerto Blest. Distr. — same. Type ♂ BM(NH). N. COMB.
- NIGRA (Shannon), 1927a:32 (*Valdivia*). Type-locality: Chile, Santiago. Distr. — same. Type ♂ USNM. N. COMB.
- RUFICAUDA (Shannon), 1927a:32 (*Valdivia*). Type-locality: Chile, Santiago. Distr. — same. Type ♀ USNM. N. COMB.
- VALDIVIANA (Philippi), 1865:748 (*Ocyptamus*?). Type-locality: Chile, Valdivia. Distr. — Chile. Types ♂ ♀ MNHNS. N. COMB.  
*albimanus* Bigot, 1883b:325 (*Ocyptamus*). Type-locality: "Chile". Type ♀ BM(NH)\*. N. SYN.

#### Genus ANERIOPHORA Stuardo & Cortés

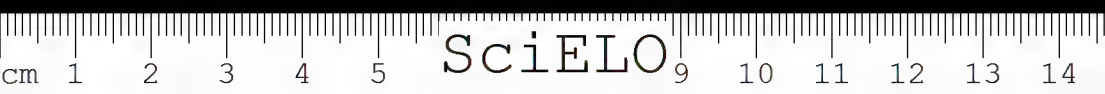
- Eriophora* Philippi, 1865:735 (preocc. Simon, 1864). Type-species, *aureorufa* Philippi (mon.).
- ANERIOPHORA Stuardo & Cortés, 1952:311 (nom. nov. for *Eriophora* Philippi). Type-species, *Eriophora aureorufa* (Philippi) (aut.).
- AUREORUFA (Philippi), 1865:736, fig. 36 (habitus) (*Eriophora*). Type-locality: Chile, Valdivia Prov. Distr. — Chile (Malleco - Aysén). Types ♂ ♀ MNHNS. Ref. — Hull, 1949d:365, figs. 22a (habitus, hind leg), 22b (antenna), 22c (head).

#### Genus FLUKEA Etcheverry

- FLUKEA Etcheverry, 1966:2. Type-species, *vockerothi* Etcheverry (orig. des.).
- Fluckea* Etcheverry, 1966:2, incorrect original spelling of *Flukea*.
- VOCKEROTHI Etcheverry, 1966:3, figs. 1-35 (all aspects). Type-locality: Chile, Chillán. Distr. — Chile (Ñuble — Aysén). Type ♂ UCSC.

#### Genus CRIORHINA Meigen

- Penthesilea* Meigen, 1800:35. Type-species, *Musca ruficauda* De Geer (sub. mon., Bezzi, in Hendel, 1908:67; misid.) = *ranunculi* Panzer. Suppressed by I.C.Z.N., 1963:339.
- CRIORHINA Meigen, 1822:236. Type-species, *Syrphus asilicus* Fallén (Westwood, 1840:136).
- Eurhinomallota* Bigot, 1882a:lxvii. Type-species, *metallica* Bigot (mon.).
- Romaleosyrphus* Bigot, 1882a:cxxix. Type-species, *villosus* Bigot (mon.). N. SYN.
- ARCTOPHILOIDES (Giglio-Tos), 1892c:7 (*Crioprora*). Type-locality: Mexico, Angang[ueoll]. Distr. — Mexico (Durango, Michoacán, Distrito Federal). Types ♂ ♀ UTOR\*.



- tapeta* Fluke, 1939:369, fig. 7 (head). Type-locality: Mexico, Mexico City, 10,000 ft. Type ♂ AMNH\*. N. SYN.
- METALLICA (Bigot), 1882a:lxvii (*Eurhinomallota*). Type-locality: "Mexico". Distr. — same. Type ♀ OXF\*.
- VILLOSA (Bigot), 1882a:cxxix (*Romaleosyrphus*). Type-locality: Mexico. Distr. — same. Type ♂ BM(NH)\*. N. COMB.

#### Genus PHILIPPIMYIA Shannon

- PHILIPPIMYIA Shannon, 1926a:47. Type-species, ?*Sterphus cyanocephalus* Philippi (orig. des.).
- CYANOCEPHALA (Philippi), 1865:738 (*Sterphus*?). Type-locality: Chile, Santiago. Distr. — Chile (Valparaiso — Malleco). Type ? MNHNS.

#### Genus BLERA Billberg

- BLERA Billberg, 1820:118. Type-species, *Musca fallax* Linnaeus (Johnson, 1911:73). Ref. — Curran, 1953:12 (key).
- PALLIPES (Bigot), 1883b:352 (*Spilomyia*). Type-locality: "Mexico". Distr. — same. Type ♀ BM(NH)\*. N. COMB.

#### Genus SYRITTA Lepeletier & Serville

- SYRITTA Lepeletier & Serville, in Latreille, et al., 1828:808 (as a subgenus). Type-species, *Musca pipiens* Linnaeus (mon.).
- AUSTROSYRITTA Marnef, 1967:268. Type-species, *cortesi* Marnef (orig. des.) = *flaviventris* Macquart.
- FLAVIVENTRIS Macquart, 1842:135 (75). Type-locality: "Senegal". Distr. — Africa, southern Europe; Chile, Argentina, Brazil. Type ♂ MNHN\*.
- cortesi* Marnef, 1967:269, fig. b (4th sternum of male) (*Austrosyritta*). Type-locality: Chile, Valparaiso, Con-Con. Type ♂ UCVC.
- PIPIENS (Linnaeus), 1758:594 (*Musca*). Type-locality: "Europe". Distr. — Holarctic, Asia Minor, North Africa; Mexico (Durango, Chihuahua). Type ? ? Ref. — Williston, 1887b:240 (description); pl. 12:1 (wing), 1a (hind leg), 1b + c (head).

#### Genus SENOGASTER Macquart

- SENOGASTER Macquart, 1834:519. Type-species, *coerulescens* Macquart (mon.) = *dentipes* Fabricius.
- ACROCHORDONODES Bigot, 1878:xcii. Type-species, *vittatus* Bigot (mon.) = *dentipes* Fabricius.
- Stenogaster*, Agassiz, 1846:338, 351, emendation.
- DENTIPES (Fabricius), 1787:338 (*Syrphus*). Type-locality: "Cajennae". Distr. — Surinam, Brazil. Type ? Kiel [destroyed, Zimsen, 1964:473]. Ref. — Williston, 1887b:239 (description), pl. 11:1 (habitus), 1a (wing), 1b (head); Hull, 1949d:366, figs. 23j (habitus), 23k (hind leg), 23l (abdomen), 23m (head).
- lineata* Fabricius, 1805:194 (*Milesia*). Type-locality: "America meridionali". Type ♀ MC\*.
- coerulescens* Macquart, 1834:519. Type-locality: "Exotique". Type ♂ OXF\*.



*vittata* Bigot, 1878:xcvii (*Acrochordonodes*). Type-locality: "Cayenne". Type ♀ OXF\*.

*comstocki* Williston, 1882b:326. Type-locality: U.S.A., New York [error]. Type ♂ USNM.

var. *RUOFEMORATA* Doesburg, 1966:97. Type-locality: Surinam, Paramaribo & Houttuin. Distr. — same. Types ♂ ♀ Doesburg.

#### Genus TROPIDIA Meigen

TROPIDIA Meigen, 1822:346. Type-species, *Eristalis milesiformis* Fallén (Curtis, 1832:pl. 401) = *scita* Harris.

*Ortholophus* Bigot, 1882a:cxxix. Type-species, *notatus* Bigot (mon.). Ref. — Shannon & Aubertin, 1933:152 (key).

FLAVIMANA Philippi, 1865:745. Type-locality: Chile, Santiago. Distr. — Chile, Argentina (Mendoza). Type ♂ MNHNS.

INSULARIS Lynch Arribálzaga, 1892a:238 (1892c:94). Type-locality: Argentina, "Insula Antequera". Distr. — same. Types ♂ ♀ MACN.

NIGRICORNIS Philippi, 1865:745. Type-locality: Chile, Santiago. Distr. — Chile. Type ♂ MNHNS.

*bivittata* Bigot, 1884a:547 (*Xylota*). Type-locality: "Chile". Type ♀ BM(NH).

NOTATA (Bigot), 1882a:cxxix (*Ortholophus*). Type-locality: "Chile". Distr. — Chile, Argentina. Type ♂ BM(NH)\*.

PULCHRA Hull, 1944j:52. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — same. Type ♂ CU.

RUBRICORNIS Philippi, 1865:744. Type-locality: Chile, Colchagua Prov. Distr. — same. Type ♂ MNHNS.

#### Genus MILEZIA Latreille

MILEZIA Latreille, 1804:194. Type-species, *Syrphus crabroniformis* Fabricius (Williston, 1887b:254) to preserve established usage. [see Thompson, 1972:176]. Ref. — Hull, 1924 (key).

BELLA Townsend, 1897e:142. Type-locality: U.S.A., New Mexico, Rio Ruidoso, 4 miles west of Dowling's Mill, 6600 ft. Distr. — U.S.A. (Arizona, New Mexico); Mexico (Durango). Types ♂ ♀ BM(NH).

NIGRA Fluke, 1939:371, fig. 11 (abdomen). Type-locality: Panama, Chiriquí, El Volcán. Distr. — same. Type ♂ AMNH\*.

PULCHRA Williston, 1892:74, pl. 2:11 (habitus), 11a (head). Type-locality: Guatemala, Purula; Vera Paz, Senahú. Distr. — same. Types ♂ BM(NH).

SCUTELLATA Hull, 1924:280. Type-locality: U.S.A., Mississippi, Mississippi Agricultural & Mechanical College. Distr. — U.S.A. (Louisiana to North Carolina, south to Florida); Panama (Canal Zone). Type ♂ Hull.

VIRGINIENSIS (Drury), 1773:71, pl. 37, fig. 6 & index, p. 2 (*Musca*). Type-locality: U.S.A., Virginia. Distr. — U.S.A. (Minnesota) to Canada (Ontario), south to U.S.A. (Texas & Florida); Mexico (Nuevo León), ?Guadeloupe [Macquart, 1842:141 (81)]. Type ? ?

## Genus SPILOMYIA Meigen

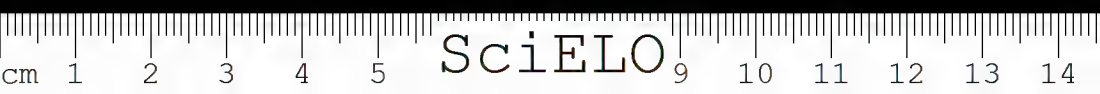
- SPILOMYIA Meigen, 1803:273. Type-species, *Musca diophthalma* Linnaeus (Coquillett, 1910b:617). Ref. — Curran, 1951 (key).
- EPHIPPIUM (Osten-Sacken), 1875:70 (*Mixtemyia*). Type-locality: "Mexico". Distr. — same. Type ♂ MCZ\*. Ref. — Williston, 1887b:249 (re-description).
- GRATIOSA Wulp, 1888:372. Type-locality: Argentina, Tucumán Prov. Distr. — Brazil (São Paulo), Argentina (Tucumán). Type ♀ lost?
- KAHLI Snow, 1895b:245. Type-locality: U.S.A., New Mexico, Magdalena Range, "near summit of 'Little Baldy'". Distr. — U.S.A. (Arizona, Texas, New Mexico); Mexico (Chihuahua). Type ♂ UK [Byers, *et al.*, 1962:168].
- LONGICORNIS Loew, 1872a:82 (1872b:258). Type-locality: U.S.A., Massachusetts, Pennsylvania, Texas. Distr. — Canada (Quebec) west to U.S.A. (Minnesota, south to Texas & Florida); Mexico [Wirth, *et al.*, 1965:613]. Types ♂ ♀ MCZ\*.
- OBSCURA Coquillett, 1902:195. Type-locality: Mexico, Chihuahua, Sierra Madre, Head of Río Piedras Verdes, 7300 ft. Distr. — same. Types ♂ ♀ USNM.
- PLEURALIS Williston, 1887b:247. Type-locality: "Mexico". Distr. — same. Type ♂ MCZ\*.

## Genus STILBOSOMA Philippi

- STILBOSOMA Philippi, 1865:736. Type-species, *rubiceps* Philippi (Shannon, 1926a:45).
- CYANEUM Philippi, 1865:736. Type-locality: Chile, Santiago & Valdivia Provs. Distr. — Chile (Santiago — Aysén), Argentina (Neuquén). Types ? MNHNS. Ref. — Shannon & Aubertin, 1933:154, figs. 31 (head), 32 (wing).
- nigrinervis* Philippi, 1865:737. Type-locality: Chile, Valdivia Prov. Type ? MNHNS.
- nigricorne*, Williston, 1886:322, misspelling.
- RUBICEPS Philippi, 1865:738. Type-locality: Chile, Santiago. Distr. — Chile (Santiago — Cautin). Type ? MNHNS.
- ruficeps*, Williston, 1886:322, misspelling.

## Genus HEMIXYLOTA Shannon & Aubertin

- HEMIXYLOTA Shannon & Aubertin, 1933:146. Type-species, *varipes* Shannon & Aubertin (orig. des.). Ref. — Shannon & Aubertin, 1933:146 (key).
- INCERTA Shannon & Aubertin, 1933:148. Type-locality: Argentina, Lake Nahuel Huapi, Puerto Blest. Distr. — same. Type ♀ BM(NH).
- UNICOLOR Shannon & Aubertin, 1933:148. Type-locality: Argentina, Ensenada. Distr. — Chile (Malleco), Argentina (Neuquén). Type ♀ BM(NH).
- VARIPEs Shannon & Aubertin, 1933:146, fig. 30 (head). Type-locality: Argentina, Puerto Blest. Distr. — Argentina (Neuquén). Type ♂ BM(NH).



## Unplaced species of XYLOTINI

- MONTENSIS Hull, 1938:122, figs. 1 (head), 12 (antenna) (*Nosodepus*).  
Type-locality: Venezuela, Aragua, Colonia Tovar, 6000-7000 ft.  
Distr. — same. Type ♀ CM.

## UNRECOGNIZED NEOTROPICAL SYRPIDAE

### Genus PIA Philippi

- PIA Philippi, 1865:742. Type-species, *cyanea* Philippi (mon.).  
CYANEA Philippi, 1865:742, fig. 40 (habitus), 40a (head). Type-locality:  
Chile, Illapel. Type ♂ MNHNS (lost?-FCT).

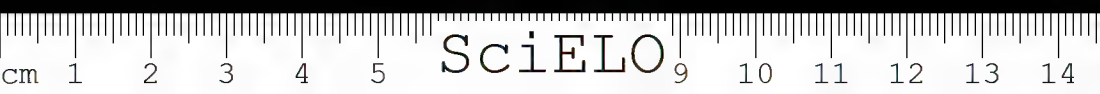
## UNRECOGNIZED SPECIES

- CHIRAGRA Fabricius, 1805:198 (*Merodon*). Type-locality: "America meridionalis". Type ? lost (Zimsen, 1964:474).  
CYANESCENS Macquart, 1834:511 (*Helophilus*). Type-locality: "Brazil".  
Type ? MNHN (not found — JRV).  
FLAVA Sack, 1941:117 (*Ceratophya*). Type-locality: Peru, Rosalina on Río Urubamba. Type ♀ MD.  
GAGATHINA Bigot, 1887: lxxix (*Priomerus*). Type-locality: Ecuador, Loja.  
Type ♀ ? (not found at either OXF or BM(NH) — JRV & FCT).  
NUBECULOSUS Wulp, 1888:372 (*Pterallastes*). Type-locality: Argentina, Prov. Tucumán. Type ♂ lost?

## LITERATURE CITED

- AGASSIZ, L.  
1846. *Nomenclatoris zoologici Index Universalis, continens nomina systematica classium, ordinum, familiarum et generum animalium omnium, tam viventium quam fossilium, secundum ordinem alphabeticum unicum disposita, adjectis homonymis plantarum, nec non variis adnotationibus et emendationibus*, viii + 393 pp. Soloduri [= Solothurn, Switzerland].
- ALDRICH, J. M.  
1905. A catalogue of North American Diptera. *Smithsn. Misc. Collect.* 46(2): 1-680.  
1933. Notes on Diptera, No. 6. *Proc. ent. Soc. Wash.* 35: 165-170.
- ANDERSSON, H.  
1970. Taxonomic Notes on the Genera *Platycheirus* and *Melanostoma* (Dipt., Syrphidae) with lectotype designations. *Ent. scand.* 1(3): 236-240.
- D'ANDRETTA, MARIA A. V. & CARRERA, M.  
1952. Resultados de uma expedição científica ao território do Acre. — Diptera. *Papéis Avulsos Zool.* 10(17): 293-306.

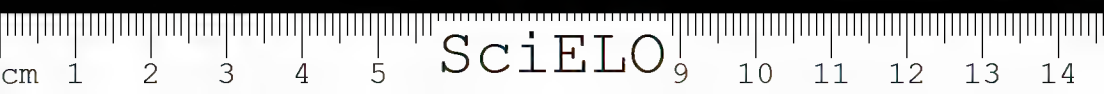
- ARNAUD, P. H., Jr.  
1963. Records of Diptera from Guadalupe Island, Mexico. Second Paper. *Ent. News* 74: 117-129 (syrphids, p. 120).
- AUSTEN, E. E.  
1893. Description of New Species of Dipterous Insects of the Family Syrphidae in the British Museum with notes on species described by the late Francis Walker. *Proc. zool. Soc. London* 61: 131-164.  
1913. Diptera from the Falkland Islands, with Descriptions of a new Genus and two new species. *Ann. Mag. nat. Hist.* (8)11: 498-504.
- BARRETTO, M. P. & LANE, J.  
1947. Novos Microdontinae brasileiros (Diptera, Syrphidae). *Rev. Ent.*, Rio de Janeiro, 18: 139-148.
- BEAN, J. L.  
1949. A study of male hypopygia of the species of *Tubifera* (Syrphidae, Diptera) that occur north of Mexico. *Canad. Ent.* 81: 140-152.
- BECKER, T.  
1903. Ägyptische Dipteren. *Mitt zool. Mus. Berlin* 2: 67-195, 4 taf.
- BEZZI, M.  
1908. Nomenklatorisches über Dipteren. *Wien. Ent. Ztg.* 27: 291-295.  
1910. Zwei neue südamerikanische *Microdon*-Arten. *Wien. Ent. Ztg.* 29: 319-320.
- BIGOT, J. M. F.  
1857a. Diptères nouveaux provenant du Chili. *Ann. Soc. ent. France* (3)5: 277-308.  
1857b. Dipteros. Pp. 328-349. In Sagra, R. de la, *Historia fisica, politica y natural de la Isla de Cuba*. Vol. 7, 371 pp. Paris, (see Stone, et al., 1965:1405).  
1859. Dipterorum aliquot nova genera. *Rev. Mag. Zool.* (2)11: 305-315.  
1875. Diptères nouveaux ou peu connus. 5<sup>e</sup> partie, VI: Espèces exotiques nouvelles des genres *Sphizea* (Rondani) et *Volucella* auctorum. *Ann. Soc. ent. France* (5)5: 469-482.  
1878. Diagnose d'un nouveau genre de Diptères de la tribu des Syrphides. *Ann Soc. ent. France*, (5) 8(*Bull.*): xcvi.  
1880a. Genres *Plagiocera* (Macq.), *Formosia* (Guérin) et *Rutilia* (Rob.-Desv.). *Ann. Soc. ent. France*, (5) 10: 85-89.



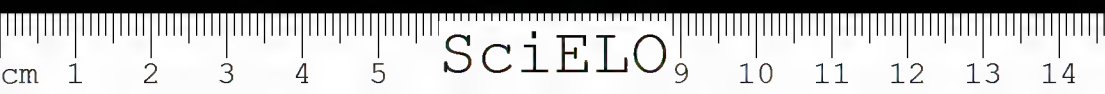


- 1880b. Diptères nouveaux ou peu connus. 14<sup>e</sup> partie, XXI: Syrphidi (mihi). Genre *Eristalis* (Fabr.). *Ann. Soc. ent. France*, (5) 10: 213-230.
- 1882a. Descriptions de quatre genres nouveaux de la tribu des Syrphides auctorum, ainsi que celles de deux nouvelles espèces. *Ann. Soc. ent. France*, (6) 2(Bull.): lxvii-lxviii.
- 1882b. Diagnoses de Genres et espèces inédits de Syrphides. 1<sup>re</sup> partie; 2<sup>e</sup> partie; 3<sup>e</sup> partie. *Ann. Soc. ent. France*, (6) 2(Bull.): cxiv-cxv; cxv-cxxi; cxxviii-cxxix.
- 1883a. Description d'un nouveau genre de Diptères de la tribu de Syrphides. *Ann. Soc. ent. France*, (6) 3(Bull.): xx-xxi.
- 1883b. Diptères nouveaux ou peu connus. 20<sup>e</sup> partie, XXXI: Genres *Volucella* (Géoffr., Hist. des Insectes, 1764) et *Phalacrochymia* (Rondani, Esame d. var. spec. d'Insetti Ditteri Brasiliani, Torino, 1848); 21<sup>e</sup> partie, XXXII: Syrphidi (1<sup>re</sup> partie); 22<sup>e</sup> partie, XXXII: Syrphidi (2<sup>e</sup> partie). Espèces nouvelles, no. I; *Ann. Soc. ent. France*, (6) 3: 61-88; 221-258; 315-356.
- 1884a. Diptères nouveaux ou peu connus. 23<sup>e</sup> partie, XXXII: Syrphidi (2<sup>e</sup> partie). Espèces nouvelles, no. II. *Ann. Soc. ent. France*, (6) 3: 535-560.
- 1884b. Diptères nouveaux ou peu connus. 24<sup>e</sup> partie, XXXII: Syrphidi (2<sup>e</sup> partie). Espèces nouvelles, no. III. *Ann. Soc. ent. France*, (6) 4: 73-116.
- 1885a. Diptères nouveaux ou peu connus. 28<sup>e</sup> partie, XXXVI: Syrphidi. Addenda au mémoire publié dans les Annales de la Société entomologique de France (Années 1883-1884). *Ann. Soc. ent. France*, (6) 4: 241-252.
- 1885b. [La description d'un nouveau genre de Diptères]. *Ann. Soc. ent. France* (6) 5: (Bull.): clxxiii-clxxiv.
1887. Note sur divers Diptères de Yesso (Japan) et de Loja (Équateur): note suivie de la description de nouvelles espèces. *Ann. Soc. ent. France*, (6) 7 (Bull.): lxxvi-lxxx.
- 1888a. Diptères nouveaux ou peu connus. 34<sup>e</sup> partie, XLII: Diagnoses de nouvelles espèces. *Ann. Soc. ent. France*, (6) 8: 253-270.
- 1888b. *Mission scientifique du Cap Horn*, 6, Zool. Dipt.: 1-45.
- BILLBERG, G. J.  
1820. *Enumeratio insectorum in Museo Gust. Joh. Billberg*. 138 pp. [Stockholm].
- BLANCHARD, E.  
1852. Orden IX. Dipteros. VI Sirfianos, pp. 403-413.1 In Gay, C., ed., *Historia física y política de Chile*. Zoologia, Vol. 7, 471 pp. (see Stone, et al., 1965:1241).

- BLANCHARD, E. E.  
1938. Descripciones y anotaciones de Dípteros argentinos. *An. Soc. cient. Argentina* 126: 345-386.
- BRÈTHES, J.  
1905. Insectos de Tucumán. *An. Mus. Nac. Buenos Aires* (3) 4: 329-347.  
1907. Catalogo de los Dípteros de las Republicas del Plata. *An. Mus. Nac. Buenos Aires* (3) 9: 277-305. (syrphids, p. 291-294).  
1909. Masarygidae, una nueva familia de dípteros. *An. Mus. Nac. Buenos Aires* (3) 10: 439-443.  
1914. Description d'un nouveau Syrphide de la Republique Argentine. *An. Mus. Nac. Buenos Aires* (3) 26: 97-98. (12 May 1914).  
1918. Quelques Diptères du Chili. *Rev. Chil. Hist. Nat.* 22: 50-51.  
1919. Cueillette d'insectes au Rio Blanco. *Rev. Chil. Hist. Nat.* 22: 40-44. (syrphids, p. 42).  
1920. Insectes du Perou. *An. Soc. cient. Argentina* 89: 27-54.  
1922. Himenópteros y Dípteros de varias procedencias. *An. Soc. cient. Argentina* 93: 119-146.  
1937. Nuevas especies peruanas de fauna y flora. *Bol. Mus. Hist. Nat. "Javier Prado"* 1: I-XVI.
- BRUCN, CARLOS  
1919. Observaciones biológicas sobre *Temnocera spinigera* Wied. (Diptera-Syrphidae). *Rev. Mus., La Plata* 24: 176-181.  
1923. Observaciones biológicas acerca de "*Salpingogaster nigriventris*" Bigot (Díptero-Sírfido). *Rev. Soc. Argent. cienc. nat.* 7: 1-6.
- BYERS, G. W.; F. BLANK; W. J. HANSON; D. F. BENWAY & R. W. FREDRICHSON  
1962. Catalogue of the Types in the Snow Entomological Museum. Part III. *Univ. Kansas Sci. Bull* 43 (5): 131-181 (167-169).
- CAMPOS, F.  
1960. Las moscas (Brachycera) del Ecuador. *Rev. Ecuatoriana Hig. Med. Trop.* 17(1): 1-99.
- CAPELLE, K. J.  
1956. The genus *Rhopalosyrphus*, with a description of a new species from Arizona. *J. Kans. ent. Soc.* 29: 170-175.
- CARRERA, M.  
1940. Descrição do alótipo de *Baccha lanei* Curran, 1936. (Syrphidae, Díptera). *Papéis Avulsos Zool.* 1: 65-58.

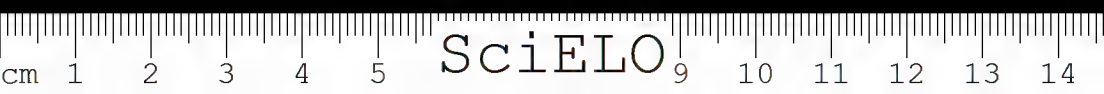


- CARRERA, M., & LENKO, K.  
1958. Descrição de duas espécies novas de *Mixogaster* (Diptera, Syrphidae) e observações sobre o inquilinismo de uma delas em ninhos de *Iridomyrmex humilis*, a "formiga argentina". *Studia Ent.* 1: 465-486.
- CARRERA, M., LOPES, H. de S., & LANE, J.  
1947a. Um novo gênero e duas espécies de Microdontinae (Diptera-Syrphidae). *Brasil-Médico* 61: 3-5.  
1947b. Contribuição ao conhecimento dos Microdontinae neotrópicos e descrição de duas novas espécies de *Nausigaster* Williston (Diptera, Syrphidae). *Rev. Brasil. Biol.* 7: 471-486.
- CENDRERO, LUIS  
1971. *Zoologia Hispanoamericana. Invertebrados*, i-xxi + 1151 pp. Mexico City.
- CERESA, L.  
1934. Tre nuove specie de *Quichuana* Knab (Diptera Syrphidae). *Atti Soc. Ital. Sci. Nat.* 73: 383-392.
- COCKERELL, T. D. A.  
1894. A Supplementary Note to Mr. Johnson's List of Jamaican Diptera. *Proc. Acad. nat. Sci., Philadelphia* 46: 419-420. (419).
- COE, R. L.  
1953. Diptera. Family Syrphidae. *Handb. Ident. Brit. Ins.* 10(1), 98 pp.
- COLLIN, J. E.  
1920. *Eumerus strigatus* Fallén and *tuberculatus* Rondani (Diptera, Syrphidae). *Ent. mon. Mag.* (3)6: 102-106, pl. III.  
1952. On the subdivision of the genus *Pipizella* Rnd., and an additional British species (Diptera, Syrphidae). *J. Soc. Brit. Ent.* 4: 85-88.
- COQUILLET, D. W.  
1900. Report on a collection of Dipterous insects from Puerto Rico. *Proc. U. S. natn. Mus.* 22: 249-270. (252-253).  
1901. Papers from the Hopkins Galapagos Expedition, 1898-1899. II. Entomological Results (2): Diptera (sic). *Proc. Wash. Acad. Sci.* 3: 371-379.  
1902. New Cyclorhaphous Diptera from Mexico and New Mexico. *Canad. Ent.* 34: 195-202.  
1910a. The type-species of the North American genera of Diptera. *Proc. U. S. nat. Mus.* 37: 499-647.  
1910b. Corrections to my paper on the type-species of the North American genera of Diptera. *Canad. Ent.* 42: 375-379.



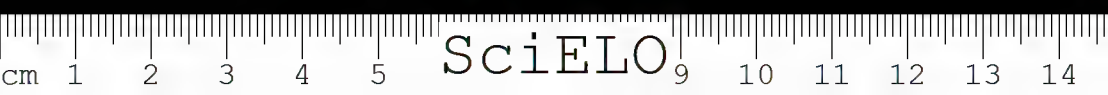
CURRAN, C. H.

- 1925a. Contribution to a monograph of the American Syrphidae from North of Mexico. *Kansas U. Sci. Bull.* (1924) 15: 7-216.
- 1925b. New American Diptera. I. *Ann. Mag. nat. Hist.* (8)16: 243-253.
- 1925c. New American Diptera. II. *Ann. Mag. nat. Hist.* (9)16: 338-354.
- 1925d. New Diptera in the American Museum of Natural History. *Amer. Mus. Novit.* 176: 1-10.
- 1926a. Partial synopsis of American species of *Volucella* with notes on Wiedemann's types. *Ann. Ent. Soc. Amer.* 19: 50-66.
- 1926b. Notes on Wiedemann's types of Syrphidae. *Canad. Ent.* 58: 111-115.
- 1926c. Appendix. New Diptera from Jamaica. pp. 102-114. In Gowdey, C. C. *Catalogus insectorum jamaicensis.* *Ent. Bull., Jamaica Dept. Agr.* 4 (1/2): 1-114.
- 1927a. Synopsis of the syrphid genus *Copestylum* Macq. (Diptera). *Ent. News* 38: 43-46.
- 1927b. New Neotropical and Oriental Diptera in the American Museum of Natural History. *Amer. Mus. Novit.* 245: 1-9.
- 1927c. Four new species of *Volucella* (Syrphidae, Dipt.). *Bull. Brooklyn Ent. Soc.* 22(2): 84-88.
- 1928a. Insects of Porto Rico and the Virgin Islands. Diptera or two winged flies. Pt. 1, pp. 1-118. In New York Acad. of Sci., *Scientific Survey of Puerto Rico and the Virgin Islands.* Vol. 11.
- 1928b. Records and descriptions of Diptera mostly from Jamaica. pp. 29-45. In Appendix of Gowdey, C. C., 1928, *Catalogus Insectorum jamaicensis.* *Ent. Bull., Jamaica Dept. Agric.* 4(3): 1-45 (q.v.).
1929. New Syrphidae and Tachinidae. *Ann. Ent. Soc. Amer.* 22: 489-510.
- 1930a. New Diptera belonging to the Genus *Baccha* Fabricius (Syrphidae). *Amer. Mus. Novit.* 403: 1-16.
- 1930b. New Diptera belonging to the Genus *Mesogramma* Loew (Syrphidae). *Amer. Mus. Novit.* 405: 1-14.
- 1930c. New species of Eristalinae with notes (Syrphidae, Diptera). *Amer. Mus. Novit.* 411: 1-27.





- 1930d. New species of Volucellinae from America (Syrphidae, Diptera). *Amer. Mus. Novit.* 413: 1-23.
- 1930e. New Diptera from North and Central America. *Amer. Mus. Novit.* 415: 1-16.
- 1930f. New Syrphidae from Central America and the West Indies. *Amer. Mus. Novit.* 416: 1-11.
- 1932a. New American Syrphidae (Diptera), with notes. *Amer. Mus. Novit.* 519: 1-9.
- 1932b. The Norwegian Zoological Expedition to the Galapagos Islands, 1925, conducted by Alf Wollebaek. IV. Diptera. *Meddel. Zool. Mus., Oslo* 30: 347-366.
1933. Two new Diptera from Guatemala. *Amer. Mus. Novit.* 643: 1-2.
- 1934a. *The families and genera of North American Diptera*, 512 pp. N.Y.
- 1934b. Diptera of Kartabo, Bartica District, British Guiana. *Bull. Amer. Mus. Nat. Hist.* 66: 287-532.
- 1934c. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 13. Diptera. *Proc. Cal. Acad. Sci.* 21: 147-172.
1935. New American Diptera. *Amer. Mus. Novit.* 812: 1-24.
- 1936a. Three new species of *Meromacrus* (Diptera, Syrphidae). *Amer. Mus. Novit.* 834: 1-5.
- 1936b. New Neotropical Syrphidae (Diptera). *Amer. Mus. Novit.* 882: 1-17.
1937. The Neotropical species of *Melanostoma* and allies (Syrphidae: Diptera). *Amer. Mus. Novit.* 926: 1-4.
1938. New American Diptera. *Amer. Mus. Novit.* 975: 1-7.
- 1939a. Synopsis of the American species of *Volucella* (Syrphidae; Diptera). Part I. Table of Species. *Amer. Mus. Novit.* 1027: 1-7.
- 1939b. Synopsis of the American species of *Volucella* (Syrphidae; Diptera). Part II. Descriptions of New Species. *Amer. Mus. Novit.* 1028: 1-17.
- 1939c. Two new American Diptera with notes on *Aemosyrphus* Bigot. *Amer. Mus. Novit.* 1031: 1-3.
- 1939d. New Neotropical *Baccha* Fabricius (Syrphidae: Diptera). *Amer. Mus. Novit.* 1041: 1-12.
- 1939e. Syrphidae (Diptera). In *Résultats scientifiques des croisières du Navire-Ecole Belge "Mercator"*, Vol. 2:173-175. *Mem. Mus. R. Hist. nat. Belg.* (2) 15.



1940. Some new Neotropical Syrphidae (Diptera). *Amer. Mus. Novit.* 1086: 1-14.
1941. New American Syrphidae. *Bull. Amer. Mus. Nat. Hist.* 78: 243-304.
- 1947a. A fissicorn syrphid fly from Brazil (Diptera). *Amer. Mus. Novit.* 1347: 1-2.
1947. New species of *Volucella* from Hawaii and the United States (Syrphidae, Diptera). *Amer. Mus. Novit.* 1361: 1-6.
1951. Synopsis of the North American species of *Spilomyia* (Syrphidae, Diptera). *Amer. Mus. Novit.* 1492: 1-11.
1953. Notes and description of some Mydidae and Syrphidae. *Amer. Mus. Novit.* 1645: 1-15.
- CURTIS, J.  
1832-1839. *British entomology: Being illustrations and descriptions of the genera of insects found in Great Britain and Ireland.* Vol. 9, pls. 384-433, 1832; Vol. 13, pls. 626-673, 1837; Vol. 16, pls. 722-769, 1839. London.
- DAVIDSON, W. M.  
1922. Notes on certain species of *Melanostoma* (Diptera: Syrphidae). *Trans. Amer. ent. Soc.* 48: 35-47.
- DEGEER, C.  
1776. *Mémoires pour servir à l'histoire des Insectes.* Vol. 6, 523 pp. Stockholm.
- DOESBURG, P. H. VAN  
1958. Syrphiden-allerlei. *Ent. Ber., Amsterdam* 18: 41-46.
1962. Preliminary list of Syrphidae known from Suriname and British and French Guiana, *Stud. Fauna Suriname (Natuurwet. Stud. Suriname)* The Hague 5 (28): 1-33.
1966. Syrphidae from Suriname. Additional records and descriptions. *Stud. Fauna Suriname (Natuurwet. Stud. Suriname)*, 9 (35): 61-107.
1970. Records of Syrphidae from the Lesser Antilles. *Studies on the Fauna of Curaçao and other Caribbean Islands* 34 (126): 90-101.
- DRURY, D.  
1770.\* *Illustrations of natural history. Wherein are exhibited upwards of 240 figures of exotic insects, according to their different genera.* Vol. 1, 130 pp., 4 fig., 60 pls. London.
- 1773.\* *Illustrations of natural history. Wherein are exhibited upwards of 240 figures of exotic insects, according to their different genera.* Vol. 2, 90 pp., 50 pls., and index to Vols 1-2. (4 unnumbered pages). London.



\* the name of the insects figured are found only in the index; thus the names must date from 1773. See Stone *et al.*, 1965:1207.

DUSEK, J. & P. LÁSKA

1967. Versuch zum Aufbau eines natürlichen Systems mitteleuropäischer Arten der Unterfamilie Syrphinae (Diptera). *Acta Sci. nat., Brno* 1: 349-390.

ENDERLEIN, G.

1912. Die Insekten des Antarkto-Archiplatea-Gebietes (Feuerland, Falklands-Inseln, Süd-Georgien). 20. Beitrag zur Kenntnis der antarktischen Fauna. *Kunigl. Svenka Vet.-Akad. Handl.* 48(3), 170 pp., 4 tafeln.
1938. Beiträge zur Kenntnis der Syrphiden. *Sitzber. Gesell. Naturf. Freunde*, Berlin, 1937: 192-237.
1940. Die Dipterenfauna der Juan-Fernandez-Inseln und der Oster-Insel. In: Skottsberg, *Natural History of Juan Fernandez and Easter Island*. *Zoology* 3(5): 643-680.

ETCHEVERRY, M.

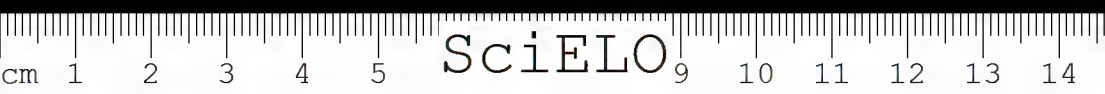
1963. Descripciones originales, sinonimia y distribución geográfica de las especies de la familia Syrphidae (Diptera) en Chile. *Publ. Centro Estudios Ent.* 5: 1-141.
1966. *Flukea vockerothi* nuevo genero y nueva especie de Syrphidae Chileno (Diptera). *Publ. Centro Estudios Ent.* 8: 1-22.

ETCHEVERRY, M. & R. D. SHENEFELT

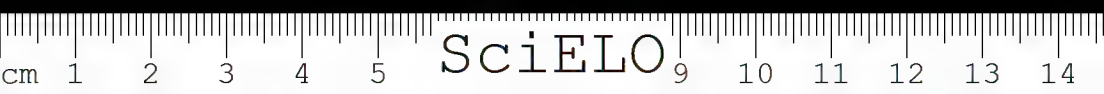
1962. A preliminary study of the genitalia of Chilean Syphidae. *Verhandl. XI. Internat. Kongr. Ent.*, 1960, 1:207-214, figs.

FABRICIUS, J. C.

1775. *Systema entomologiae, sistens insectorum classes, ordines, genera, species adiectis synonymis, locis, descriptionibus, observationibus*. 832 pp. Flensburgi et Lipsiae [= Flensburg and Leipzig].
1781. *Species insectorum exhibentes eorum differentias specificas, synonymis, auctorum, loca natalia, metamorphosis*. Vol. 2. 517 pp. Hamburgi et Kilonii [=Hamburg and Kiel].
1787. *Mantissa insectorum sistens species nuper detectas*. Vol. 2. 382 pp. Hafniae [=Copenhagen].
1794. *Entomologia systematica emendata et aucta*. Vol. 4. 472 pp. Hafniae [=Copenhagen].
1798. *Supplementum entomologiae systematicae*. 572 pp. Hafniae [=Copenhagen].
1799. *Index alphabeticus in J. C. Fabricii Supplementum Entomologiae Systematicae*. 53 pp. Hafniae [=Copenhagen].

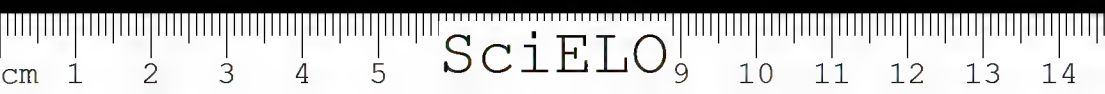


1805. *Systema antliatorum secundum ordines, genera, species*. 373 p., + 30 pp. Brunsvigae [=Brunswick].
- FALLÉN, C. F.  
 1810. *Specim. entomolog. novam Diptera disponendi methodum exhibens*. 26 pp., 1 pl. Lund.
1816. *Syrphici Sueciae*. Pp. 1-22 (cont.). Lundae (=Lund).
1817. *Syrphici Sueciae*. (Concl.). Pp. 23-62. Lundae (=Lund).
- FLUKE, C. L.  
 1936. New Syrphidae (Diptera) from Brazil and Cuba. *J. Kans. Ent. Soc.* 9: 59-65.
1937. New South American Syrphidae (Diptera). *Amer. Mus. Novit.* 941: 1-14.
1939. New Syrphidae (Diptera) from Central and North America. *Ann. Ent. Soc. Amer.* 32: 365-375.
1942. Revision of the Neotropical Syrphini related to *Syrphus*. *Amer. Mus. Novit.* 1201: 1-24.
1943. A new genus and new species of Syrphidae (Diptera) from Ecuador. *Ann. Ent. Soc. Amer.* 36: 425-431.
1945. The Melanostomini of the Neotropical Region (Diptera, Syrphidae). *Amer. Mus. Novit.* 1272: 1-29.
- 1950a. The male genitalia of *Syrphus*, *Epistrophe* and related genera (Diptera, Syrphidae). *Trans. Wis. Acad. Sci. Arts Letters* 40: 115-148.
- 1950b. Some new tropical syrphid flies with notes on others. *Acta Zool. Lilloana* 9: 439-454.
- 1951a. The genus "*Dolichogyna*" (Diptera, Syrphidae). *Acta Zool. Lilloana* 12: 465-478.
- 1951b. Syrphid flies related to *Volucella scutellata* Macquart. *Amer. Mus. Novit.* 1503: 1-33.
- 1951c. Corrections to the paper on "The male genitalia of *Syrphus*, *Epistrophe* and related genera" (Diptera: Syrphidae). *Ent. News* 62: 217-218.
- 1953a. New Syrphidae from North America. *J. Kans. Ent. Soc.* 26: 125-129.
- 1953b. Some Syrphid Fly Synonymy (sic). *Ent. News* 64: 208-209.
1955. Los Insectos de las Islas Juan Fernandez. 18. Syrphidae (Diptera). *Rev. Chilena Ent.* 4: 39-43.

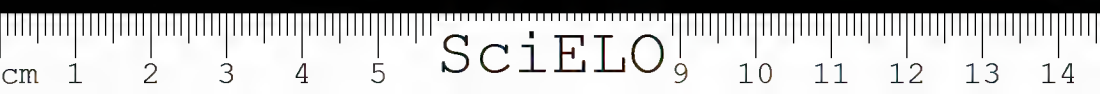




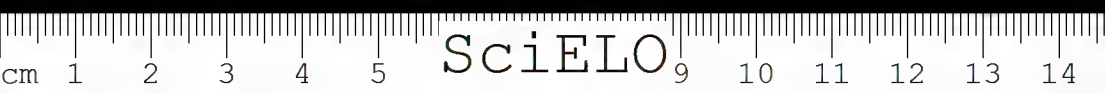
1956. Catalogue of the family Syrphidae in the Neotropical Region. *Rev. Brasil Ent.* 6: 193-268.
1957. Catalogue of the family Syrphidae in the Neotropical Region. *Rev. Brasil Ent.* 7: 1-181.
1958. A study of the male genitalia of the Melanostomini (Diptera-Syrphidae). *Trans. Wis. Acad. Sci. Arts Letters* (1957) 46: 261-279.
1960. Concerning the Catalogue of Neotropical Syrphidae. *Rev. Bras. Ent.* 9: 169.
- FLUKE, C. L., & HULL, F. M.
1947. The *Cartosyrphus* flies of North America (Syrphidae). *Trans. Wis. Acad. Sci. Arts, Letters*, (1945) 37: 221-263.
- FLUKE, C. L. & WEEMS, H. V., JR.
1956. The Myoleptini of the Americas (Diptera, Syrphidae). *Amer. Mus. Novit.* 1758: 1-23.
- FREY, R.
1946. Über der Gattungen der Syrphiden-Unterfamilie Syrphinae (Syrphinae+Bacchinae). *Notulae Ent.* (1945) 25: 152-172.
- GIGLIO-TOS, E.
1891. Diagnosi de quattro nuovi generi di Ditteri. *Bol. Mus. Zool. Anat. Comp* 6(108): 1-6.
- 1892a. Un nuovo genere di Sirfidi. *Bol. Mus. Zool. Anat. Comp.* 7 (117): 1-3.
- 1892b. Sui due generi di Sirfidi *Rhopalosyrphus* ed *Omegasyrphus*. *Bol. Mus. Zool. Anat. Comp.* 7(118): 1-3.
- 1892c. Diagnosi di nuove specie di Ditteri. VI. Sirfidi del Messico. *Bol. Mus. Zool. Anat. Comp.* 7(123): 1-7.
- 1892d. Diagnosi di nuove specie di Ditteri. VII. Sirfidi del Messico. *Bol. Mus. Zool. Anat. Comp.* 7(132): 1-5.
- 1892e. *Ditteri del Messico*. Pt. 1, 72 pp. Torino.
1893. *Ditteri del Messico*. Pt. 2, 80 pp. Torino.
- GMELIN, J. F.
1790. *Caroli à Linné, Systema naturae per regna tria naturae...* Ed. 13. Vol. 1: Regnum Animale, Pt. 5, pp. 2225-3020. Lipsiae (=Leipzig). (see Stone *et al.*, 1965:1245).
- GOFFE, E. R.
1946. The genera in Syrphidae of Liroy, 1864. *J. Brit. Ent.* 3(1): 27-30.



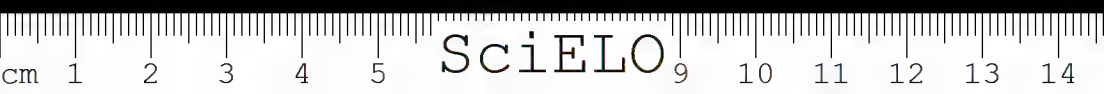
- GOOT, V. S. VAN DER  
1964. Fluke's catalogue of neotropical Syrphidae (Insects, Diptera) a critical study with an appendix on new names in Syrphidae. *Beaufortia* 10(127): 212-221.
- GOWDEY, C. C.  
1926. Catalogus insectorum jamaicensis. *Ent. Bull., Jamaica Dept. Agric.* 4(1): xiv+114 pp.; 4(2): ii+10 pp. (79-80).  
1928. Catalogus insectorum jamaicensis. *Ent. Bull., Jamaica Dept. Agric.* 4(3): iii+45 pp.
- GRAY, G. (See Griffith & Pidgeon, 1832)
- GREENE, C. T.  
1923. A new species of *Volucella* (Diptera). *Proc. Ent. Soc. Wash.* 25: 165-168.  
1955. Larvae and pupae of the genera *Microdon* and *Mixogaster* (Diptera, Syrphidae). *Trans. Amer. Ent. Soc.* 81: 1-20.
- GRIFFITH, E. & PIDGEON, E.  
1832. *The class insects arranged by the Baron Cuvier, with supplementary additions to each order, and notices of new genera and species by George Gray, Esq.* Volume the second. Vol. 15, 793 pp. (see Stone, *et al.*, 1965:1251).
- GUÉRIN-MÉNEVILLE, F. E.  
1844. Douzième ordre. Les Diptères. Pp. 531-559. In his *Iconographie du règne animal de G. Cuvier*, Vol. 3: Texte explicatif, Insectes, 576 pp. Paris (see Stone, *et al.*, 1965:1253).  
1848a. (Une description provisoire). *Ann. Soc. ent. France* (2)6 (*Bull.*): lxxxii.  
1848b. Note sur deux Insectes parasites de la cochenille et qui font un grand tort à cette culture en Amérique. *Rev. zool.* 11: 349-350.
- HALIDAY, A. H.  
1856. Addenda and corrigenda. Pp. xi-xv. In (Walker, F., H. T. Stainton, & S. J. Wilkinson), *Insecta Britannica*. (Vol. 4): *Diptera* Vol. 3 (by Walker), xxiv+352 pp., pls. 21-30. London (see Stone, *et al.*, 1965:1254, 1462).
- HALL, D. G.  
1927. A new Syrphid (Diptera) from Guatemala. *Ent. News* 38: 239-240.
- HARDY, D. E.  
1964. Diptera: Brachycera II-Cyclorrhapha I. Volume 11, 458 pp. in Zimmerman, E. C., *Insects of Hawaii*, volume 11.



- HARTLEY, J. C.  
1961. A taxonomic account of the larvae of some British Syrphidae. *Proc. Zool. Soc. London* 136(4): 505-573.  
1963. The cephalopharyngeal apparatus of syrphid larvae and its relationship to other Diptera. *Proc. Zool. Soc. London* 141 (2): 261-280.
- HAYWARD, K. J. & GOLBACH, R.  
1963. Lista de los Tipos de Diptera conservados en el Instituto Miguel Lillo. *Acta Zool. Lilloana* 19: 391-406.
- HEISS, E. M.  
1938. A classification of the larvae and puparia of the Syrphidae of Illinois exclusive of aquatic forms. *Ill. Biol. Monog.* 16 (4), 142 pp. in *Univ. Ill. Bull.* 36(1): 1-142.
- HENDEL, F.  
1908. Nouvelle classification des mouches à deux ailes (Diptera L.), d'après un plan tout nouveau par J. G. Meigen, Paris, an VII (1800 v. s.). Mit einem Kommentar. *Verhandl. k.-k. zool.-bot. Gesell., Wien* 58: 43-69.
- HINE, J. S.  
1913. The genus *Myiolepla* [sic]. *Ohio Nat.* 14: 205-210.  
1914. Diptera of Middle America. Family Syrphidae. *Ohio Nat.* 14: 333-343.  
1924. The North American species of the genus *Meromacrus* with one new species. (Diptera, Syrphidae). *Bull. Brooklyn Ent. Soc.* 19: 20-23.
- HORN, W. & KAHLE, I.  
1935. Über entomologische Sammlungen. (Ein Beitrag zur Geschichte der Entomo-Museologie). Teil 1. *Ent. Beih.*, Berlin-Dahlem 2: 1-160, taf. i-xvi.  
1936. Über entomologische Sammlungen. (Ein Beitrag zur Geschichte der Entomo-Museologie). Teil II. *Ent. Beih.*, Berlin-Dahlem 3: 161-296, taf. xvii-xxvi.  
1937. Über entomologische Sammlungen, Entomologen & Entomo-Museologie. (Ein Beitrag zur Geschichte der Entomologie). Teil III. *Ent. Beih.* 4: 297-536, taf. xxvii-xxxviii.
- HULL, F. M.  
1924. *Milesia* in North America (Dipt.: Syrphidae). *Ent. News* 35: 280-282.  
1925a. A review of the genus *Eritalis*, pt. 1. *Ohio J. Sci.* 15: 11-43.  
1925b. A review of the genus *Eristalis*, pt. 2. *Ohio J. Sci.* 15: 285-310.

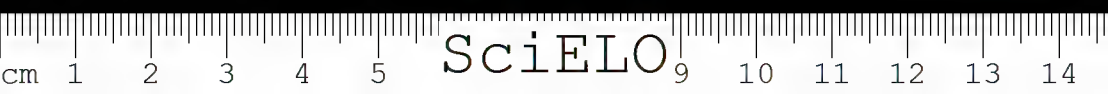


- 1925c. Notes on the North American species of the genus *Didea* with description of a new species. *Ann. Ent. Soc. Amer.* 18: 277-281.
1930. Some new species of Syrphidae from North and South America. *Trans. Amer. Ent. Soc.* 56: 139-148.
1935. Some undescribed species of *Eristalis* from North America in the United States National Museum. *J. Wash. Acad. Sci.* 25: 326-331.
- 1936a. Change of same. *Ent. News* 47: 227.
- 1936b. A curious new Syrphid fly from Peru. *Proc. Ent. Soc. Wash.* 38: 167.
- 1937a. Some Neotropical and Oriental Syrphid flies in the United States National Museum. *J. Wash. Acad. Sci.* 27: 165-176.
- 1937b. New species of exotic Syrphid flies. *Psyche* 44: 12-32.
- 1937c. A megamorphic and two curious mimetic flies. *Psyche* 44: 116-121.
1938. Exotic forms of Syrphid flies. *Ann. Carnegie Mus.* 27: 121-128.
- 1940a. Some Neotropical Syrphid flies. *Ent. News* 51: 247-250.
- 1940b. Some new species of Syrphidae. *J. Wash. Acad. Sci.* 30: 432-434.
- 1941a. New American Syrphid flies. *Amer. Mus. Novit.* 1151: 1-3.
- 1941b. Some new species of Syrphidae. *Bull. Brooklyn Ent. Soc.* 36: 166-168.
- 1941c. Some new species of Syrphidae. *J. Kansas Ent. Soc.* 14: 61-63.
- 1941d. Some new Syrphid flies from North and South America. *Ent. News* 52: 157-163.
- 1941e. Some new species of Syrphidae from Florida, Cuba and Brazil. *Ent. News* 52: 278-283.
- 1941f. Some flies of the Family Syrphidae, *Mesogramma*. *Psyche* 48: 45-49.
- 1941g. Descriptions of some new species of Syrphidae. *Psyche* 48: 149-165.
- 1941h. Some new species of Syrphidae from South America. *J. Wash. Acad. Sci.* 31: 311-315.
- 1941i. Some undescribed Syrphid flies from the Neotropical region. *J. Wash. Acad. Sci.* 31: 432-440.

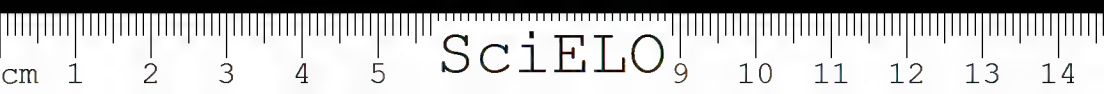




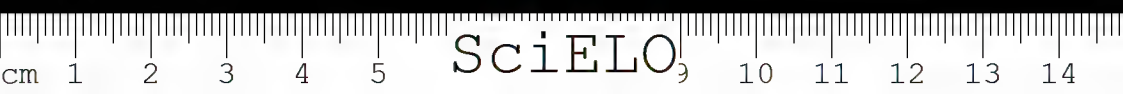
- 1941j. Some species of the genus *Baccha* from the New World. *Proc. Ent. Soc. Wash.* 43: 181-183.
- 1942a. New species of Syrphidae from the Neotropical region. *Psyche* 49: 84-107.
- 1942b. Some new species of Syrphidae. *J. Kansas Ent. Soc.* 15: 10-12.
- 1942c. Some new species of *Baccha* and *Mesogramma*. *Ohio J. Sci.* 42: 73-74.
- 1942d. Some new species of *Baccha* and *Mesogramma*. *Rev. Ent., Rio de Janeiro* 13: 44-49.
- 1942e. The flies of the genus *Meromacrus*. *Amer. Mus. Novit.* 1200: 1-19.
- 1942f. Some flies of the genus *Mesogramma*. *Proc. New England Zool. Club.* 30: 17-24.
- 1942g. Some flies of the genus *Volucella*. *Proc. New England Zool. Club.* 19: 93-98.
- 1942h. Some new species of Syrphidae. *Psyche* 49: 19-24.
- 1943a. New species of American Syrphid flies. *Bull. Brooklyn Ent. Soc.* 39: 48-53.
- 1943b. The genus *Ceriogaster* Williston (Syrphidae). *Rev. Soc. Ent. Argentina* 12: 138-140.
- 1943c. Two new species of *Baccha* (Syrphidae). *Proc. Ent. Soc. Wash.* 45: 50-51.
- 1943d. Some flies of the genus *Volucella* in the British Museum (Natural History). *Ann. Mag. Nat. Hist.* (2) 10: 18-40.
- 1943e. Some flies of the genus *Microdon* in the British Museum (Natural History). *Ann. Mag. Nat. Hist.* (2) 10: 702-720.
- 1943f. Some new American Syrphid flies (Diptera). *Ent. News* 54: 29-37.
- 1943g. New species of Syrphidae of the genus *Baccha* and *Mesogramma*. *Ent. News* 54: 89-91.
- 1943h. New species of *Baccha* and related flies. *Ent. News* 54: 135-140.
- 1943i. The genus *Mesogramma*. *Ent. Amer.* 23: 1-41.
- 1943j. The New World species of the genus *Baccha*. *Ent. Amer.* 23: 42-99.



- 1943k. New species of Syrphid flies in the National Museum. *J. Wash. Acad. Sci.* 33: 39-43.
- 1943l. Some undescribed species of the genus *Baccha* (Syrphidae). *J. Wash. Acad. Sci.* 33: 72-74.
- 1943m. New species of the genera *Baccha* and *Rhinoprosopa* (Syrphidae). *J. Wash. Acad. Sci.* 33: 214-216.
- 1943n. Some Neotropical Syrphids. *Rev. Ent.*, Rio de Janeiro 14: 510-515.
- 1944a. New species of the genus *Salpingogaster*. *Bol. Ent. Venezolana* 3: 165-170.
- 1944b. Three new species of Syrphid flies in the British Museum of Natural History. *Proc. Ent. Soc. Wash.* 46: 10-12.
- 1944c. Studies on Syrphid flies in the Museum of Comparative Zoology. *Psyche* 51: 22-45.
- 1944d. Some flies of the family Syrphidae in the British Museum (Natural History). *Ann. Mag. Nat. Hist.*, (11) 11: 21-61.
- 1944e. Additional species of *Microdon* in the British Museum (Natural History). *Ann. Mag. Nat. Hist.*, (11) 11: 241-261.
- 1944f. New Syrphid flies from North and South America. *Bull. Brooklyn Ent. Soc.* 39: 35-40.
- 1944g. Additional species of the genus *Baccha* from the New World. *Brooklyn Ent. Soc. Bull.* 39: 56-64.
- 1944h. Some genera of flies of the family Syrphidae. *J. Wash. Acad. Sci.* 34: 129-134.
- 1944i. Studies on flower flies (Syrphidae) in the Vienna Museum of Natural History. *J. Wash. Acad. Sci.* 34: 398-404.
- 1944j. A study of some Syrphid flies of South America. *Rev. Ent.*, Rio de Janeiro 15: 34-54.
- 1945a. New Syrphid flies. *Ent. News* 56: 210-217.
- 1945b. Some undescribed Syrphid flies. *Proc. New England Zool. Club*, 23: 71-78.
- 1945c. A revisional study of the fossil Syrphidae. *Bull. Mus. comp. Zool.* 95: 251-355, pls. 1-13.
- 1946a. The genus *Quichuana* Knab. *Amer. Mus. Novit.* 1317: 1-17.



- 1946b. The genus *Lepidostola* Mik. *Amer. Mus. Novit.* 1326: 1-15.
- 1947a. More flies of the genus *Baccha* (Diptera, Syrphidae). *Rev. Ent.*, Rio de Janeiro 18: 395-410.
- 1947b. Some American Syrphid flies. *Psyche* 54: 230-240.
- 1948a. Some Neotropical species of Syrphids. *Ent. News* 59: 1-12.
- 1948b. Venezuelan Syrphid flies. *Bol. Ent. Venezolana* 7: 6-10.
- 1949a. American Syrphid flies of the subfamilies Cheilosinae and Syrphinae. *Bull. Brooklyn Ent. Soc.* 44: 73-79.
- 1949b. New species of New World *Baccha*. *Ohio J. Sci.* 49: 244-246.
- 1949c. Studies upon Diptera in the British Museum. *Ann. Mag. Nat. Hist.*, (12) 2: 727-746.
- 1949d. The morphoolgy and inter-relationships of the genera of Syrphid flies, recent and fossil. *Trans. Zool. Soc. London* 26(4): 257-408.
- 1949e. The genus *Baccha* from the New World. *Ent. Amer.* 27: 89-291 (1947).
- 1949f. Some flies of the genus *Volucella* from the New World. *Psyche* 56: 26-40.
- 1949g. New American Syrphid flies of the subfamily Eristalinae. *Psyche* 56: 120-138.
- 1949h. Some new species of the genus *Volucella*. *Ent. News* 60: 31-38.
- 1949i. Some unusual Syrphid flies. *Ent. News* 60: 225-233.
- 1950a. New species of New World *Volucella*. *Bull. Brooklyn Ent. Soc.* 45: 65-71.
- 1950b. Studies upon Syrphid flies in the British Museum (Natural History). *Ann. Mag. Nat. Hist.* (12) 3: 603-624.
- 1950c. New South American Syrphid flies. *Rev. Ent.*, Rio de Janeiro 21: 225-236.
- 1951a. New species of *Mesogramma* (Diptera: Syrphidae). *Amer. Mus. Novit.* 1480: 1-22.
- 1951b. Some new species of Syrphid flies. *J. New York Ent. Soc.* 54: 65-70.
- 1951c. Some New World Xylotinae (Diptera: Syrphidae). *Pan-Pacific Ent.* 27: 183-186.

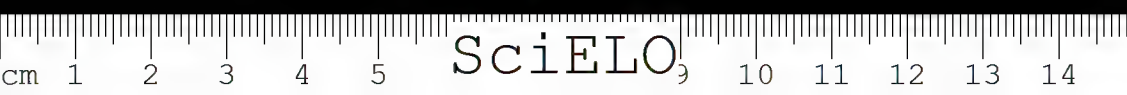


1954. The genus *Mixogaster* Macquart (Diptera: Syrphidae). *Amer. Mus. Novit.* 1652: 1-32.
1956. A new Southwestern species of *Mallota* Meigen (Diptera: Syrphidae). *Psyche* 63: 24-26.
1957. Some undescribed species of the genus *Baccha* Fabricius (Diptera: Syrphidae). *J. New York Ent. Soc.* 65: 187-190.
1958. Three new species of the genus *Baccha* Fabricius (Diptera: Syrphidae). *Studia Ent.* 1: 427-432.
1960. New species of Syrphidae and Asilidae (Diptera). *Pan-Pac. Ent.* 36: 69-74.
- HULL, F. M. & FLUKE, C. L.  
 1950. The genus *Cheilosia* Meigen (Diptera, Syrphidae). The subgenera *Cheilosia* and *Hiatomyia*. *Bull. Amer. Mus. Nat. Hist.* 94: 299-402.
- INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE.  
 1963. Opinion 678. The suppression under the Plenary Powers of the pamphlet published by Meigen, 1800. *Bull. zool. Nomencl.* 20: 339-342.
- JACOBS, J. CH.  
 1900. Diagnoses d'Insectes recueillis par l'expédition Antarctique Belge. *An. Soc. Ent. Belgique* 44: 107.
- JAENNICKÉ, F.  
 1867. Neue exotische Dipteren. *Abhandl. Senckenb. Naturf. Gesell.* 6: 311-408.
- JOHNSON, C. W.  
 1894. List of the Diptera of Jamaica with descriptions of new species. *Proc. Acad. Nat. Sci. Philadelphia*, pp. 271-281.
1903. Diptera of Beulah, New Mexico. Pp. 101-106. In Skinner, H. ed., A list of the insects of Beulah, New Mexico. *Trans. Amer. Ent. Soc.* 29: 35-117.
1911. Notes on the dipterous genera proposed by Billberg in his *Enumeratio Insectorum*. *Psyche* 18: 73-74.
1924. Diptera of the Williams Galapagos Expedition. *Zoologica* 5 (8): 85-92.
1919. A revised list of the Diptera of Jamaica. *Bull. Amer. Mus. Nat. Hist.* 41(8): 421-449.
1908. The Diptera of the Bahamas with notes and description of one new species. *Psyche* 15: 69-80.
1919. The North American Diptera described by Nils S. Swederus. *Canad. Ent.* 51: 32.





1921. New Diptera from Texas and Mexico. *Psyche* 28: 56-59.
1926. New species of Diptera from North Carolina and Florida. *Psyche* (1925) 32: 299-302.
- KAHL, P. H. I.  
1897. New species of the syrphid genera *Mixogaster* Macq. and *Ceria* Fabr., with notes. *Kans. Univ. Quart.* (A) 6: 137-146.
- KERTÉSZ, K.  
1902. Uebersicht der südamerikanischen *Ceria*-Arten. *Természetr. Füzetek* 25: 85-90.  
1903. Einige neue südamerikanische *Ceria*-Arten. *Ann. Hist. Nat. Mus. hung.* 1: 433-440.  
1910. *Catalogus dipterorum hucusque descriptorum* Vol. 7, 470 pp.
- KNAB, F.  
1913. Some Neotropical Syrphidae. *Insec. Inscit. Menst.* 1: 13-15.  
1914. Two North American Syrphidae. *Insec. Inscit. Menst.* 2: 151-153.  
1916a. Critical notes on Syrphidae. *Insec. Inscit. Menst.* 4: 91-95.  
1916b. Further notes on Syrphidae. *Insec. Inscit. Menst.* 4: 133-135.  
1917. On sme North American Species of *Microdon* (Diptera: Syrphidae). *Proc. Biol. Soc. Wash.* 30: 133-143.
- KNUTSON, L. V.  
1971. Puparia of *Salpingogaster conopida* and *S. texana*, with notes on prey (Diptera: Syrphidae). *Ent. News* 82: 29-38.  
1973. Taxonomic revision of the Aphid-killing flies of the genus *Sphaerophoria* in the Western Hemisphere (Syrphidae). *Miscel. Publ. ent. Soc. Amer.* 9: 1-50, 108 figs. 10 maps.
- LANE, J.  
1962. Insecta Patagonica (Diptera: Syrphidae). *Rev. Soc. ent. Argentina* 25: 17-19.
- LANE, J. & CARRERA, M.  
1943. Sobre o gênero *Cerioides* (Diptera, Syrphidae, Cerioidini). *Rev. Ent., Rio de Janeiro* 14: 167-173.  
1944. Duas espécies de *Quichuana* que se criam em bambu. *Rev. Ent., Rio de Janeiro* 15: 205-208.
- LATREILLE, P. A., LEPELETIER, A. L. M., SERVILLE, J. G. A. & GUÉRIN-MÉNEVILLE, F. E.  
1825-[1828]. Entomologie, ou histoire naturelle des Crustacés, de Arachnides et des Insectes Vol. 10, pp. 1-344, 1825; pp. 345-833 (1828) In Société de Gens de Lettres, de Savans et d'Artistes. *Encyclopédie méthodique. Histoire naturelle.*



LATREILLE, P. A.

1804. Tableau méthodique des Insectes. Pp. 129-200. In Société de Naturalistes et d'Agriculteurs, *Nouveau dictionnaire d'histoire naturelle, appliqué aux arts, principalement à l'agriculture et à l'économie rurale et domestique*. Vol. 24: *Tableaux méthodiques d'histoire naturelle*, pp. 1-238.
1805. Histoire naturelle, générale et particulière, des Crustacés et des Insectes, Tome quatorzième. pp. 1-432. In Sonnini, C. S. ed., *Histoire naturelle par Buffon*.
1810. *Considérations générales sur l'ordre naturel des animaux*. 444 pp. Paris.

LATTA, R. & COLE, F. R.

1933. A comparative study of the species of *Eumerus* known as the lesser bulb flies. *Monthly Bull. Calif. Dept. Agric.* 22: 142-152, 16 figs.

LIMA, A. DA COSTA

1946. Nova espécie do gênero *Rhysoys* Williston (Diptera: Syrphidae). *Bol. Soc. brasil. Agron.* 9: 155-156.

LINNAEUS, C.

1758. *Systema naturae per regna tria naturae*. Ed. 10, vol. 1, 1-824. Stockholm.

LINSLEY, E. G. & R. L. USINGER

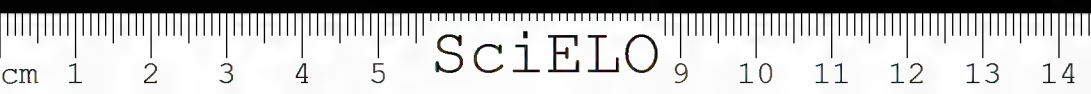
1966. Insects of the Galapagos Islands. *Proc. Calif. Acad. Sci.* (4) 33: 113-196 (1968).

LOEW, H.

1840. Ueber die im Grosherzogthum Posen aufgefundenen Zweiflügler. *Isis (Oken's) 1840*: 512-583.
1853. Neue Beiträge zur Kenntnis der Dipteren. *Erster Beitrag. K. Realschule Meseritz, Programme 1853* 1-38.
1861. Diptera aliquot in insula Cuba collecta. *Wien. Ent. Monatschr.* 5: 33-43.
1863. Diptera Americae septentrionalis indigena. Centuria tertia. *Berlin. Ent. Zeitschr.* 7: 1-55.
- 1864a. Diptera Americae septentrionalis indigena. Centuria quinta. *Berlin. Ent. Zeitschr.* 8: 49-104.
- 1864b. *Diptera Americae septentrionalis indigena*. Vol. 1: (Centuriae 1-5), 266 pp. Berolini (=Berlin), "1861" (see Stone, et al., 1965:1325).
- 1866a. Diptera Americae septentrionalis indigena. Centuria sexta. *Berlin. Ent. Zeitschr.* (1865) 9: 127-186.
- 1866b. Diptera Americae septentrionalis indigena. Centuria septima. *Berlin. Ent. Zeitschr.* 10: 1-54.
- 1872a. Diptera Americae septentrionalis indigena. Centuria decima. *Berlin. Ent. Zeitschr.* 16: 49-115.

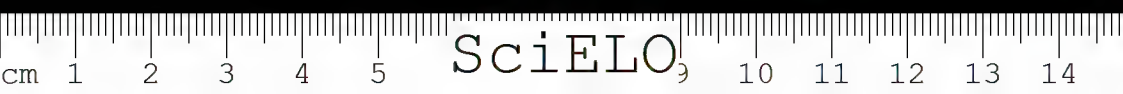
- 1872b. *Diptera Americae septentrionalis indigena*. Vol. 2: (Centuria 6-10), 300 pp. Berolini (=Berlin), (see Stone, *et al.*, 1965: 1326).
- LIOY, P.  
1864. I Ditteri distribuiti secondo un nuovo metodo di classificazione naturale. *Atti R. Ist. veneto Sci.* (3) 9: 738-760.
- LYNCH ARRIBÁZAGA, F.  
1891. Dipterologia Argentina (Syrphidae). *An. Soc. Cien. Argentina* 32: 80-99; 118-131; 194-202; 247-256; 307-314.  
1892a. Dipterologia Argentina (Syrphidae). *An. Soc. Cien. Argentina* 33: 51-58, 111-121; 189-199; 236-253.  
1892b. Dipterologia Argentina (Syrphidae). *An. Soc. Cien. Argentina* 34: 33-46; 173-192; 242-280.  
1892c. *Dipterologia Argentina. Syrphidae*. 181 pp., 1 pl. Buenos Aires.
- MALDONADO CAPRILES, J. & NAVARRO, C. A.  
1967. Additions and Corrections to Wolcott's "Insects of Puerto Rico." *Carib. J. Sci.* 7(1-2): 45-64 (59).
- MACQUART, J.  
1829. Insectes Diptères du nord de la France. Syrphies. *Mém. Soc. Sci. Agr. Lille, 1827/1828*: 149-371, 4 pls.  
(also published separately as "Insectes Diptères du nord de la France", Vol. 4, 223 pp., 4 pls., Lille, 1829).  
1834. Histoire naturelle des Insectes. — Diptères, Tome premier. Diptera, Vol. 1, 578 pp., 12 pls. In [Roret, N. E., ed.] (*Collection des suites à Buffon*) Paris (see Stone *et al.*, 1965: 1399).  
1842. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Sci. Agric. Lille 1841*(1): 65-200, 22 pls.  
(also published separately as "Diptères exotiques nouveaux ou peu connus", Vol. 2, Pt. 2, pp. 5-140, 22 pls., Paris, 1842) (see Stone *et al.*, 1965:1332).  
1846. Diptères exotiques nouveaux ou peu connus. Supplément. *Mém. Soc. Sci. Agric. Lille* (1845) 1844: 133-364, 20 pls.  
(also published as "Diptères exotiques nouveaux ou peu connus. Supplément. pp. 5-238, 20 pls., Paris, 1846).  
1847. Diptères exotiques nouveaux ou peu connus. 2<sup>e</sup> supplément. *Mém. Soc. Sci. Agric. Lille 1846*: 21-120, 6 pls.  
(also published as "Diptères exotiques nouveaux ou peu connus. Supplément II", pp. 5-104, 6 pls., Paris, 1847 (1848).  
1848. Diptères exotiques nouveaux ou peu connus. Suite de 2<sup>me</sup>. Supplément [i.e., 3<sup>e</sup> supplément]. *Mém. Soc. Sci. Agric. Lille 1847* (2): 161-237, 7 pls.

- (also published as "*Diptères exotiques nouveaux ou peu connus. Supplément III*", pp. 1-77, 7 pls., Paris, 1848).
1850. *Diptères exotiques nouveaux ou peu connus. 4<sup>e</sup> supplément. Mém. Soc. Sci. Agric. Lille 1849: 309-479, pls. 1-14.*  
(also published as "*Diptères exotiques nouveaux ou peu connus. Supplément IV*", pp. 5-161 (text only), Paris, 1850).
1855. *Diptères exotiques nouveaux ou peu connus. 5<sup>e</sup> supplément. Mém. Soc. Sci. Agric. Lille 1854: 25-156, 7 pls.*  
(also published as "*Diptères exotiques nouveaux ou peu connus. Supplément V*", pp. 5-136, 7 pls., Paris, 1855).
- MANN, W. M.  
1928. A new *Microdon* from Panama. *Psyche* 35: 168-170.
- MARNEF, L.  
1967. *Austrosyrhitta cortesi* nov. gen., nov. sp. de sirfido de Chile. (Diptera Syrphidae). *Bull. Ann. Soc. R. Ent. Belg.* 103: 268-276.
- MARTORELL, L. F.  
1939. Insects observed in the State of Aragua, Venezuela, South America. *J. Agric. Univ. Puerto Rico* 23(4): 177-232 (215-216).
- MATSUMURA, S. & J. ADACHI  
1917. Synopsis of the economic Syrphidae of Japan. Pt. II. *Ent. Mag. (Kyoto)* 2: 133-156, pl. 6.
- MEIGEN, J. W.  
1800. *Nouvelle classification des mouches à deux ailes (Diptera L.) d'après un plan tout nouveau.* 40 pp. Paris.  
1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Mag. Insektenkunde* 2: 259-281.  
1822. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten.* Vol. 3, pp. 1-416. Hamm.  
1830. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten.* Vol. 6, pp. 1-401. Hamm.
- MEIJERE, J. C. H. DE  
1913. Dipteren I. *Nova Guinea* 9: 305-386, taf. x.
- METCALF, C. L.  
1921. The genitalia of male Syrphidae: their morphology, with especial reference to its taxonomic significance. *Ann. Ent. Soc. Amer.* 14(3): 169-214.
- MIK, J. L.  
1886. Dipterologische Miscellen. II. *Wien. Ent. Ztg.* 5: 276-279.  
1895. Bemerkungen zu den Dipteren-Gattungen *Pelecocera* Meig. und *Rhopalomera* Wied. *Wien. ent. Ztg.* 14: 133-136.

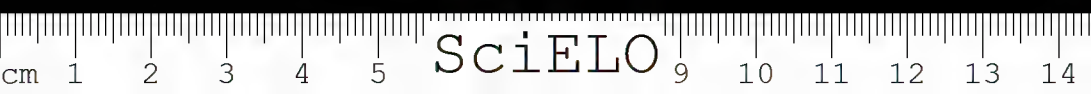




1899. Ueber die Dipterengattung *Microdon*. *Wien. Ent. Ztg.* 18: 138-143.
- NEWMAN, E.  
1838. Entomological Notes. *Ent. Mag. (Newman)* 5: 372-402.
- OSTEN SACKEN, C. R.  
1875. A list of the North American Syrphidae. *Bull. Buffalo Soc. Nat. Sci.* 3: 38-71.  
1878. Catalogue of the described Diptera of North America. *Smithsn. Misc. Collect.* 16(2): 1-276.  
1877. Western Diptera: Descriptions of new genera and species of Diptera from the region west of the Mississippi and especially from California. *Bull. U. S. Geol. Geog. Survey Ter.*, 3: 189-354.
- PALISOT DE BEAUVOIS, A. M. F. J.  
1805-(1821). *Insectes recueillis en Afrique et en Amérique dans les royaumes d'Oware et de Benin, à Saint-Domingue et dans les États-Unis, pendant les années 1786-1797.* 276 pp. Paris. (see Stone, et al., 1965:1366).
- PANZER, G. W. F.  
1809. *Faunae insectorum germanicae initiae oder Deutschlands Insecten.* H. 104, 24 pp., 24 pls. Nürnberg. (see Stone, et al., 1965:1367).
- PAPAVERO, N.  
1962. Quatro novas espécies de Microdontinae do Brasil. (Diptera, Syrphidae). *Papéis Avulso Zool.* 15 (25): 317-326.  
1964. Descrição de uma nova espécie de *Ubristes* Walker, 1852 (Diptera, Syrphidae, Microdontinae). *Papéis Avulsos Zool.* 16(2): 21-25.
- PERTY, J. A. M.  
1830-1833. *Delectus animalium articulorum, quae in itinere per Brasiliam annis MDCCCXVII-MDCCCXX jussu et auspiciis Maximiliani Josephi I. Bavariae regis augustissimi peracto collegerunt Dr. J. B. de Spix et Dr. C. F. Ph. de Martius*, 44 + 224 pp., 40 pls. Monachii (=Munich). (Pp. 1-60, pls. 2-12, 1830; pp. 61-124, pls. 13-24, 1832; pp. 125-224, pls. 25-40, 1833).
- PHILIPPI, R. A.  
1865. Aufzählung der chilenischen Dipteren. *Verhandl. K.-k. Zool. Bot. Gesell. Wien* 15 (Abhandl.): 595-782.
- PERSSON, P. I.  
1971. "Eugenies resa". Localities, dates and labels of the insects collected during the voyage around the world by the Swedish frigate "Eugenie" in the years 1851-1853. *Ent. Tidskr.* 92: 164-172.



- PINO, G.  
1962. Estudio de algunos caracteres morfológicos de nueve especies de Syrphidae chilenos de diferentes géneros (Diptera). *Publ. Centros Estudios Entomologicos* 4: 45-58.
- PORTER, CARLOS, E.  
1918. Artrópodos de Curacautin y Lonquimay. *Rev. Chil. Hist. Nat.* 22: 178-182.  
1920. Sobre algunos Artrópodos colectados en diversas localidades del país por los señores J. N. Thomas, José A. Campo, J. A. Wolffsohn, R. Barros V., etc. *Rev. Chil. Hist. Nat.* 24: 153-160.  
1921. Sobre algunos Sirfidos de Chile. *Rev. Chil. Hist. Nat.* 25: 446-447.  
1923. Lista de los Sirfidos colectados por don Hector E. Pinochet C. en la prov. Bio-Bio. *Rev. Chil. Hist. Nat.* 27: 117.  
1924. Algunos Insectos colectados en el sur del país por el señor Flaminio Ruiz P. *Rev. Chil. Hist. Nat.* 28: 81-82.  
1924. Enumeración de Sirfidos colectados en San José de Maipo en Octubre y Novbre. de 1923. *Rev. Chil. Hist. Nat.* 28: 98.  
1927a. Sobre un Cerambycidae y un Syrphidae procedentes de Traiguén. *Rev. Chil. Hist. Nat.* 31: 83.  
1927b. Cambio de nombre genérico en la Fam. Sirfidos. *Rev. Chil. Hist. Nat.* 31: 96.  
1927c. Algunos insectos de Mancera. *Rev. Chil. Hist. Nat.* 31: 121-122.  
1928. Entomología Chilena. Primera lista de Insectos de Panimavida. *Rev. Chil. Hist. Nat.* 32: 221-225.  
1932. Acerca de algunos Insectos Chilenos. *Rev. Chil. Hist. Nat.* 36: 190-193.  
1934. Insectos colectados en Puente Alto (1). *Rev. Chil. Hist. Nat.* 38: 169-171.  
1937. Acerca de la distribución geográfica de algunos Insectos Chilenos. *Rev. Chil. Hist. Nat.* 41: 41-42.  
1938. Entomología Chilena. Localidades Nuevas de algunas especies. *Rev. Chil. Hist. Nat.* 42: 166-169.
- RAFINESQUE, C. S.  
1815. *Analyse de la Nature ou tableau de l'Univers et des corps organisés*. 224 pp. Palerme.



RAMOS, J. A.

1946. The Insects of Mona Island (West Indies). *J. Agric. Univ. Puerto Rico* 30(1): 1-74 (57).

RÖDER, V. VON

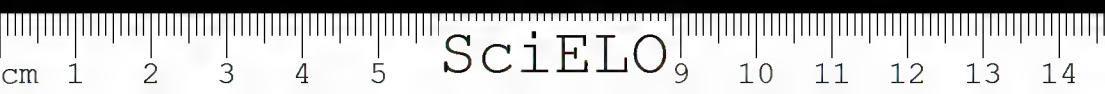
1885. Diptera von der Insel Portorico. *Stettin. Ent. Ztg.* 46: 337-349.
1886. Dipteren von den Cordilleren Colombien. Gesammelt durch Herrn Dr. Alphons Stübel. *Stettin. Ent. Ztg.* 47: 257-270.
1892. *Dipteren gesammelt in den Jahren 1868-1877 auf einer Reise durch Süd-Amerika von Alphons Stübel.* Berlin. 16 pp.

RONDANI, C.

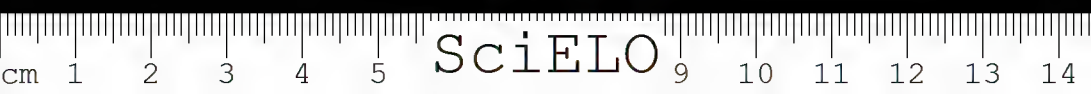
1844. Proposta della formazione di un genere nuovo per due specie di insetti ditteri. Memoria nona per servir alla ditterologia italiana. *Nuovi Ann. Sci. Nat., Bologna* (2) 1 [sic; = 2]: 193-202, pl. 2.
1845. Ordinamento sistematico dei generi italiani degli insetti ditteri. *Nuovi Ann. Sci. nat. Bologna* (2) 2: 256-270, 443-459.
1848. Esame di varie specie d'insetti ditteri brasiliani. *Studi Ent. (Turin)* 1: 63-112.
- 1850a. Osservazioni sopra alquante specie di esapodi ditteri del Museo Torinese. *Nuovi. Ann. Sci. Nat. Bologna*, (3) 2: 165-197.
- 1850b. Dipterorum species aliquae in America Aequatoriali Collectae a Cajetano Osculati observatae et distinctae novis breviter descriptis. *Nuovi Ann. Sci. Nat. Bologna* (3) 2: 355-373.
- 1850c. Nota sexta pro dipterologia italica de nova specie generis *Ceriae* Fabricii. *Ann. Soc. ent. France* (2) 8: 211-214, pl. 7, fig. 1.
1857. *Dipterologiae Italicae prodomus*. Vol. 2: Species Italicae ordinis dipterorum in genera characteribus definito, ordinatim collectae, methodo analitica distinctae, et novis vel minus cognitis descriptis, Pars Prima: Oestridae, Syrphidae (sic), Conopidae. 264 pp. Parma.
1863. *Diptera exotica revisa et annotata*. 99 pp., 1 pl. Modena. (Also published as "Dipterorum species et genera aliqua exotica", 1864, *Arch. Zool. anat. Fis.*, Modena (1863) 3(1): 1-99, pl. 5).
1868. Diptera aliqua in America meridionali lecta a Prof. P. Strobel annis 1866-67. *Annuaire. Soc. Nat. Modena* 3: 24-40, pl. 4.

SACHTLEBEN, H.

1961. Nachträge zu "Walther Horn & Ilse Kahle: Über entomologische Sammlungen". *Beitr. Ent.* 11: 481-540.

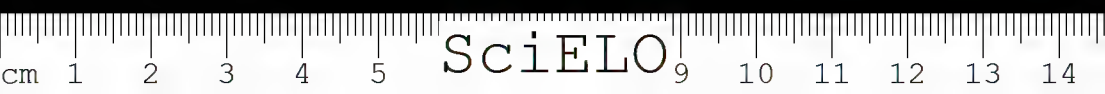


- SACK, P.  
1920. Die Gattungen *Salpingogaster* Schiner und *Meromacrus* Rondani. *Zool. Jahrb., Abt. System., Geog. Biol. Tiere* 43: 235-272.
1921. Dr. L. Zürchers Dipteren-Ausbeute aus Paraguay: Syrphiden. *Archiv Naturgesch. (Abt. A)*, 87: 127-149.
1941. Syrphidae, pp. 97-120. In Titschack, E., *Beitrag zur Fauna Perus*. Band I, 344 pp.  
(most copies of this publication were destroyed during World War II. It was re-issued as Sack, 1951. see *Zool. Rec.* 1951, 88 (13): 132 [#2537]).
1951. Syrphidae, pp. 93-116. In Titschack, E., *Beiträge zur Fauna Perus*. Band II, 344 pp.
- SAY, T.  
1823. Descriptions of dipterous insects of the United States. *J. Acad. Nat. Sci. Phila.* 3: 73-104.
- 1829-1830. Descriptions of North American dipterous insects. *J. Acad. Nat. Sci. Phila.* 6: 149-178, 1829; 183-188, 1830.
- SCHINER, I. R.  
1860. Vorläufiger Commentar zum dipterologischen Theile der "Fauna Austriaca". II. *Wien. Ent. Monatschr.* 4: 208-216.
1868. Diptera. In *Reise der österreichischen Fregatte Novara Zool.*, Vol. 2, Abt. 1, B. Wien. 388 pp. (see Stone, et al., 1965:1480).
- SCOPOLI, J. A.  
1763. *Entomologia carniolica exhibens insecta carnioliae indigine et distributa in ordines, genera, species, varietates methodo Linnaeana*. 421 pp. Vindobonae [=Vienna].
- SEDMAN, Y. S.  
1959. Male genitalia in the subfamily Cheilosinae. Genus *Chrysogaster* s. l. (Diptera, Syrphidae). *Proc. ent. Soc. Wash.* 61(2): 49-58.
1964. The *Chrysogaster* (*Orhonevra*) *bellula* group in North America. *Proc. Ent. Soc. Wash.* 66: 169-201.
1965. The Genus *Valdivia* Shannon. *Proc. Ent. Soc. Wash.* 67: 197-201.
- SHANNON, R. C.  
1921. A reclassification of the subfamilies and genera of the North American Syrphidae. *Bull. Brooklyn Ent. Soc.* 16: 65-72.
- 1922a. A reclassification of the subfamilies and genera of the North American Syrphidae. *Bull. Brooklyn Ent. Soc.* (1921) 16: 120-128.

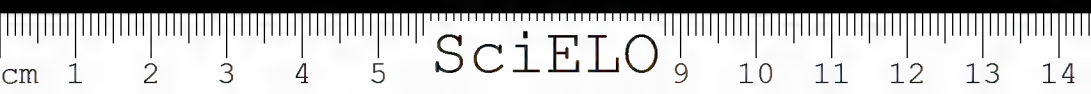




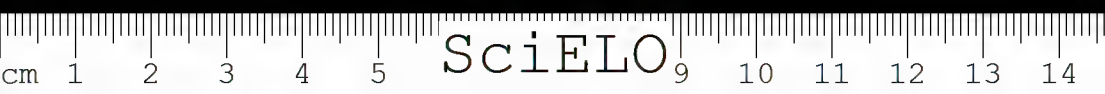
- 1922b. A reclassification of the subfamilies and genera of the North American Syrphidae. *Bull. Brooklyn Ent. Soc.* 17: 30-43.
- 1923a. A reclassification of the subfamilies and genera of the North American Syrphidae (Diptera). Appendix. *Bull. Brooklyn Ent. Soc.* 18: 17-21.
- 1923b. A new *Microdon* from Bolivia. *Insec. Inscit. Menst.* 11:80-81.
- 1925a. Some American Syrphidae (Diptera). *Proc. Ent. Soc. Wash.* 27: 107-112.
- 1925b. An extraordinary adult myrmecophile from Panama. *J. Wash. Acad. Sci.* 15: 211-213.
- 1925c. The syrphid-flies of the subfamily Ceriodinae in the U.S. National Museum Collection. *Insec. Inscit. Menst.* 13: 48-52, 53-65.
- 1926a. Review of the American xylotine syrphid-flies. *Proc. U. S. nat. Mus.* 69(9): 1-52.
- 1926b. The chrysotoxine syrphid-flies. *Proc. U. S. nat. Mus.* 69(11): 1-20.
- 1927a. A review of the South American two-winged flies of the family Syrphidae. *Proc. U. S. Nat. Mus* 70(9): 1-33.
- 1927b. Notes on and descriptions of syrphid flies of the subfamily Cerioidinae. *J. Wash. Acad. Sci.* 17: 38-53.
- 1927c. Una nueva especie de Syrphidae: *Quichuana Rieseli*. *Rev. Soc. Ent. Argentina* 1: 5-6.
- 1927d. Some New Diptera from Argentina. *Rev. Soc. Ent. Argentina* 1: 31-42.
- 1928a. Two new and remarkable Syrphidae in the Museo Nacional de Historia Natural de Buenos Aires. *An. Mus. Nac. Hist. Nat.*, Buenos Aires 34: 573-576.
- 1928b. Apropos "*Masarygus*" Brèthes. *Rev. Soc. Ent. Argentina* 2: 37-38.
- SHANNON, R. C. & AUBERTIN, D.  
1933. *Syrphidae. Diptera of Patagonia and South Chile*. Brit. Mus. (Nat. Hist.) part VI, fascicle 3: 120-170. (see Stone, *et al.*, 1965:1163).
- SMITH, F.  
1877. Account of the Zoological Collections made during the visit of H. M. S. "Petrel" to the Galapagos Islands. VIII. Hymenoptera and Diptera. *Proc. Zool. Soc. London* 45: 82-84.
- SNOW, W. A.  
1895a. A new species of *Pelecocera*. *Kansas Univ. Quart.* 3: 187.



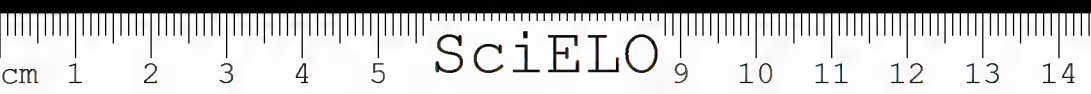
- 1895b. Diptera of Colorado and New Mexico. Syrphidae. *Kansas Univ. Quart.* 3(4): 225-247.
- SOUKUP, J.  
1945. Lista de los Dípteros peruanos descritos en los últimos años. *Bol. Mus. Hist. nat. "Javier Prado"* 9: 119-142 (128-129).  
1959. Segunda lista de Dípteros del Perú. *Biota* 2: 178-195, 201-223.
- SPEISER, P.  
1914. Ueber einige Syrphiden und zwei für die deutsche Fauna neue Clythiiden. *Jahrb. Naturk.*, Wiesbaden (1913) 66: 117-146.
- STEPHENS, J. F.  
1846. *Illustrations of British Entomology; or, a Synopsis of indigenous insects: containing their generic and specific distinctions; with an account of their metamorphoses, times of appearance, localities, food, and economy, as far as practicable. Supplement.* vi+32 pp. London.
- STEYSKAL, G. C.  
1953. A new melissomimetic fly of the genus *Microdon* (Diptera, Syrphidae). *Occ. Pap. Mus. Zool. Univ. Michigan* 551: 1-4.
- STONE, A., C. SABROSKY, W. W. WIRTH, R. H. FOOTE, & J. COULSON  
1965. A catalog of the Diptera of America north of Mexico. *U. S. Dept. Agric. Handb.* 276, 1696 pp.
- STUARDO ORTIZ, CARLOS  
1946. *Catálogo de los Dípteros de Chile.* 251 pp. Min. Agric. [Chile], Santiago.
- STUARDO, C. & R. CORTÉS  
1952. Nuevo nombre para un género de Syrphidae Chileno de R. A. Philippi (Diptera). *Revta. Chil. Ent.* 2: 311.
- SZILÁDY, Z.  
1926. Dipterenstudien. *Ann. Hist. nat. Mus. hung.* 24: 586-611, 18 figs.
- THOMPSON, F. CHRISTIAN  
1965. A New Neotropical *Lepidosia* Curran (Diptera: Syrphidae). *Ent. News* 76: 61-62.  
1968. The Placement of the Subgenus *Protolepidostola* Hull (Diptera: Syrphidae) with the description of two new species. *J. Kans. Ent. Soc.* 41: 270-277.  
1969. A New Genus of Microdontine Flies (Diptera: Syrphidae) with Notes on the Placement of the Subfamily. *Psyche* 76: 74-85.  
1971. The genus *Nepenthosyrphus* with a key to world genera of Tropidini. *J. Kansas Ent. Soc.* 44: 523-534.



1972. A contribution to a generic revision of the Neotropical Melleinae (Diptera: Syrphidae). *Arg. Zool.* 23: 73-215, 74 figs., 11 maps.
- THOMSON, C. G.  
1869. 6. Diptera, Species nova descripsit. Pp. 443-614, In K. Svenska Vetenskaps-Akademien, *Kongliga svenska fregatten Eugénies resa omkring jorden. Pt. Zoologie, 1: Insekter*, 617 pp. (see Stone *et al.*, 1965:1297, 1442).
- TOWNSEND, C. H. T.  
1895a. Contributions to the Dipterology of North America. I. Syrphidae. *Trans. Amer. Ent. Soc.* 22: 33-55.  
1895b. On the Diptera of Baja California, including some species from adjacent regions. *Proc. Calif. Acad. Sci.* (2) 4: 593-620.  
1897a. Contributions from the New Mexico Biological Station. No. 2. On a collection of Diptera from the Lowlands of the Rio Nautla, in the State of Vera Cruz. I. *Ann. Mag. Nat. Hist.* (6) 19: 16-34.  
1897b. Contributions from the New Mexico Biological Station. No II (continued). On a collection of Diptera from the lowlands of the Rio Nautla, in the State of Vera Cruz. II. *Ann. Mag. Nat. Hist.* (6) 20: 19-33.  
1897c. Diptera from the lower Rio Grande or Tamaulipan Region of Texas. I. *J. N. Y. Ent. Soc.* 5: 171-178.  
1897d. Diptera from the headwaters of the Gila River. I. *Psyche* 8: 38-41.  
1897e. Contributions from the New Mexico Biological Station. No. IV. Diptera from the Sacramento and the White Mountains in southern New Mexico. I. *Ann. Mag. nat. Hist.* (6) 19: 138-149.  
1898. Diptera from the Lower Rio Grande or Tamaulipan Fauna of Texas. II. *J. New York ent. Soc.* 6: 50-52.  
1901. Diptera from the headwaters of the Gila River. II. *Psyche* 8: 92-94.
- TUCKER, R. W. E.  
1952. The Insects of Barbados. *J. Agric. Univ. Puerto Rico* 36: 330-363 (349).  
1953. Insects of Barbados. *J. Barbados Mus. hist. Soc.* 20: 155-181 (172).
- VAL, F. C. DO  
1972. On the biometry and evolution of the genus *Ornidia* (Diptera, Syrphidae). *Papéis Avulsos Zool.* 26(1): 1-28, 5 figs., 9 graphs.
- VERRALL, G. H.  
1901. *British flies*. Vol. 8, *Platypezidae, Pipunculidae, and Syrphidae of Great Britain*, 691 pp. London (see Stone *et al.*, 1965:1458).



1913. Descriptions of new species of the syrphid genus *Callicera*. *Trans. Ent. Soc. London*, (3) 1913: 323-333.
- VIMMER, A. & J. SOUKUP  
1938. Los Dípteros de los alrededores de Puno. *Bol. Mus. Hist. nat. "Javier Prado"* 2: 27-35.
- VOCKEROTH, J. R.  
1964. The Genus *Alipumilio* Shannon (Diptera: Syrphidae). *Canad. Ent.* 96: 922-924.  
1969. A Revision of the Genera of the Syrphini (Diptera: Syrphidae). *Mem. Canad. Ento. Soc.* 62: 1-176.
- WALKER, F.  
1837. Descriptions, etc. of the Diptera. Pp. 331-359. In Descriptions, etc. of the Insects collected by Captain P. P. King, R. N., F. R. S., in the Survey of the Straits of Magellan. In Curtis, J., Haliday, A. H. and Walker, F., *Trans. Linn. Soc. London* 17: 315-359.  
1849. *List of the specimens of dipterous insects in the collection of the British Museum*. Vol. 3, 485-687. London.  
1852. Diptera cont. Vol. 1, pp. 157-414. In [Saunders, W. W., ed.] *Insecta Saundersiana*, London, "1856" (see Stone *et al.*, 1965:1461).  
1857. Characters of undescribed Diptera in the collection of W. W. Saunders, Esq., F. L. S., etc. *Trans. Ent. Soc. London* 4: 119-158.  
1860. Characters of undescribed Diptera in the collection of W. W. Saunders. *Trans. Ent. Soc. London* 5: 268-296.
- WESTWOOD, J. O.  
1840. Order XIII. Diptera Aristotle (Antliata Fabricius. Halteriptera Clairv.). pp. 125-158. In his, *An introduction to the modern classification of insects. Synopsis of the genera of British insects*, 158 pp. London. (see Stone *et al.*, 1965:1466).
- WHEELER, W. M.  
1924. Two extraordinary larval myrmecophiles from Panama. *Proc. Nat. Acad. Sci.* 10: 237-244.
- WIEDEMANN, C. R. W.  
1819. Brasilianische Zweiflügler. *Zool. Mag. (Wied.)* 1(3): 40-56.  
1824. *Munus rectoris Academia Christiana Albertina aditurus analecta entomologica ex Museo Regio Havniensi*. 60 pp. Kiliae [=Kiell].  
1830. *Aussereuropäische zweiflügelige Insekten*. Vol. 2, 684 pp. Hamm.





$$I_1^{\text{L}} = \frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{4}$$

- [illegible]

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

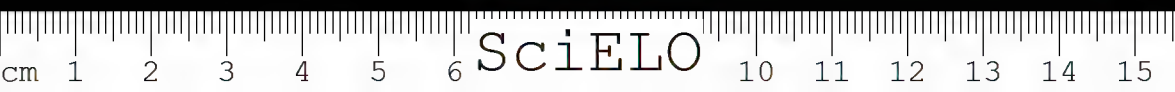
- [illegible]

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

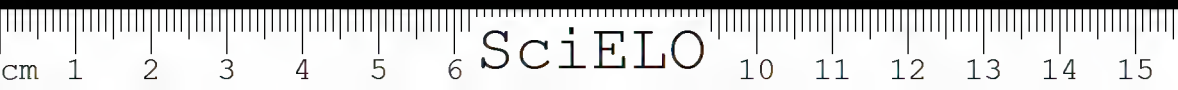
- |      |   |
|------|---|
| 1002 | <i>Therapsid Mammalia</i> . 3. <i>Protheriidae</i> , reviewed, based on the study of <i>Protherium</i> from the <i>Therapsid</i> . 2 new species. 1 large plate, figures 100-101, 102, 103, 104, 105.   |
| 1007 | <i>Therapsid Mammalia</i> . 4. <i>Protheriidae</i> , reviewed, based on the study of <i>Protherium</i> from the <i>Therapsid</i> . 2 new species. 1 large plate, figures 106-107, 108, 109, 110, 111.   |
| 1011 | <i>Therapsid Mammalia</i> . 5. <i>Protheriidae</i> , reviewed, based on the study of <i>Protherium</i> from the <i>Therapsid</i> . 2 new species. 1 large plate, figures 112-113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 8 |



|   |        |
|---|--------|
| <i>aeolidiformis</i> Wheeler, 1924, <i>Microdon</i> .....                                   | 46.62  |
| <i>aeolus</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                        | 46.12  |
| <i>aeolus</i> (Hull), 1924 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                    | 46.47  |
| <i>aequilineatus</i> (Hull), 1945 ( <i>Epistrophe</i> ), <i>Ocyptamus</i> .....             | 46.12  |
| <i>aeruginosifrons</i> (Schiner), 1868 ( <i>Syrphus</i> ), <i>Allograpta</i> .....          | 46.33  |
| <i>agilis</i> (Bigot), 1884 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....                      | 46.12  |
| <i>?agnata</i> (Rondani), 1850 ( <i>Eristalis</i> ), <i>Palpada</i> .....                   | 46.109 |
| <i>agonis</i> (Walker), 1849 ( <i>Syrphus</i> ), <i>Rhysops</i> .....                       | 46.42  |
| <i>agrorum</i> (Fabricius), 1787 ( <i>Syrphus</i> ), <i>Palpada</i> .....                   | 46.103 |
| <i>agrorum</i> , Hull, 1925, <i>Palpada</i> .....   | 46.109 |
| <i>alacris</i> (Curran), 1934 ( <i>Eristalis</i> ), <i>Palpada</i> .....                    | 46.107 |
| <i>albiceps</i> (Macquart), 1846 ( <i>Helophilus</i> ), <i>Polydontomyia</i> .....          | 46.96  |
| <i>albifrons</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....               | 46.71  |
| <i>albifrons</i> (Wiedemann), 1830 ( <i>Eristalis</i> ), <i>Palpada</i> .....               | 46.103 |
| <i>albimanus</i> (Bigot), 1883 ( <i>Ocyptamus</i> ), <i>Valdiviomyia</i> .....              | 46.118 |
| <i>albipilosum</i> (Hull), 1937 ( <i>Volucella</i> ), <i>Copestylum</i> .....               | 46.71  |
| <i>albitarse</i> (Lynch Arribáizaga), 1892 ( <i>Phalacromyia</i> ), <i>Copestylum</i> ..... | 46.71  |
| <i>albitarsis</i> Rondani, 1850 ( <i>Syrphus</i> ) .....                                    | 46.39  |
| <i>albiventris</i> (Bigot), 1880 ( <i>Eristalomyia</i> ), <i>Palpada</i> .....              | 46.103 |
| <i>albmaculatus</i> (Smith), 1877 ( <i>Syrphus</i> ), <i>Xanthandrus</i> .....              | 46.45  |
| <i>alcedo</i> (Curran), 1934 ( <i>Volucella</i> ), <i>Copestylum</i> .....                  | 46.71  |
| <i>alcedoides</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....              | 46.71  |
| <i>alchimista</i> (Rondani), 1848 ( <i>Volucella</i> ), <i>Copestylum</i> .....             | 46.71  |
| <i>alicia</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                      | 46.12  |
| <i>Alipumilio</i> Shannon, 1927 .....   | 46.92  |
| <i>Allograpta</i> Osten Sacken, 1875 .....  | 46.33  |
| <i>Allograptina</i> Enderlein, 1938 .....   | 46.39  |
| <i>alphabeticus</i> (Hull), 1942 ( <i>Mesograma</i> ), <i>Toxomerus</i> .....               | 46.47  |
| <i>alta</i> Curran, 1936, <i>Allograpta</i> .....   | 46.33  |
| <i>altissima</i> (Fluke), 1942 ( <i>Epistrophe</i> ), <i>Allograpta</i> .....               | 46.33  |
| <i>altissimus</i> (Fluke), 1945 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....                | 46.42  |
| <i>amabilis</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                      | 46.12  |
| <i>Amathia</i> Walker, 1852 .....   | 46.31  |
| <i>amazon</i> (Curran), 1930 ( <i>Eristalis</i> ), <i>Palpada</i> .....                     | 46.103 |
| <i>ambrosettii</i> (Lynch Arribáizaga), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> .....  | 46.71  |
| <i>americana</i> (Schiner), 1868 ( <i>Syrpitta</i> ), <i>Neplas</i> .....                   | 46.115 |
| <i>americanum</i> (Goot), 1964 ( <i>Volucella</i> ), <i>Copestylum</i> .....                | 46.87  |
| <i>americanus</i> (Wiedemann), 1830 ( <i>Syrphus</i> ), <i>Metasyrphus</i> .....            | 46.9   |
| <i>amethystinum</i> (Bigot), 1875 ( <i>Volucella</i> ), <i>Copestylum</i> .....             | 46.71  |
| <i>amoenus</i> (Macquart), 1846 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....                  | 46.52  |
| <i>amplus</i> (Fluke), 1942 ( <i>Epistrophe</i> ), <i>Ocyptamus</i> .....                   | 46.12  |
| <i>analis</i> Curran, 1940, <i>Microdon</i> .....   | 46.61  |
| <i>analis</i> (Macquart), 1846 ( <i>Imatisma</i> ), <i>Mallota</i> .....                    | 46.99  |
| <i>analis</i> Williston, 1887, <i>Xylota</i> .....  | 46.113 |
| <i>anax</i> Thompson, <i>Microdon</i> .....   | 46.61  |
| <i>anchoratus</i> , <i>auctorum</i> , <i>Toxomerus</i> .....                                | 46.48  |
| <i>anchoratus</i> Bigot, 1883, <i>Salpingogaster</i> .....                                  | 46.32  |
| <i>anchoratus</i> (Macquart), 1842 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....               | 46.54  |
| <i>andicolum</i> (Bigot), 1884 ( <i>Temnocera</i> ), <i>Copestylum</i> .....                | 46.83  |
| <i>anera</i> (Curran), 1939 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                       | 46.12  |
| <i>Aneriophora</i> Stuardo & Cortés, 1952 .....   | 46.118 |
| <i>angulatus</i> Hull, 1943, <i>Microdon</i> .....  | 46.61  |
| <i>?angustata</i> (Rondani), 1848 ( <i>Eristalis</i> ), <i>Palpada</i> .....                | 46.109 |
| <i>angustatus</i> , Fluke, 1957, <i>Microdon</i> .....                                      | 46.65  |



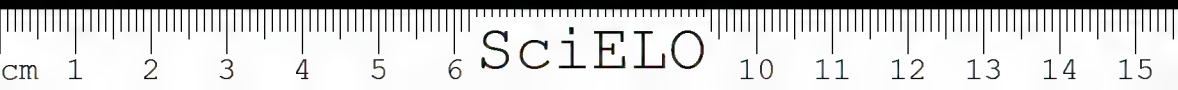
|  |        |
|--|--------|
| <i>angustiventris</i> (Macquart), 1855 (Aphritis), <i>Microdon</i> .....     | 46.63  |
| <i>angustiventris</i> (Macquart), 1855 (Merodon), <i>Quichuana</i> .....     | 46.98  |
| <i>angustus</i> (Macquart), 1846 (Aphritis), <i>Microdon</i> .....           | 46.63  |
| <i>angustus</i> (Macquart), 1848 (Aphritis), <i>Microdon</i> .....           | 46.65  |
| <i>ania</i> (Walker), 1849 (Milesia), <i>Meromacrus</i> .....                | 46.111 |
| <i>anna</i> Curran, 1936, <i>Meromacrus</i> .....                            | 46.111 |
| <i>anna</i> (Williston), 1887 (Volucella), <i>Copestylum</i> .....           | 46.71  |
| <i>annulatus</i> (Curran), 1941 (Callostigma), <i>Ocyptamus</i> .....        | 46.12  |
| <i>annulifer</i> (Bigot), 1884 (Melanostoma), <i>Toxomerus</i> .....         | 46.48  |
| <i>annulifera</i> Bigot, 1884, <i>Orthonevra</i> .....                       | 46.91  |
| <i>annulipes</i> (Macquart), 1850 (Paragus) <i>Allograpta</i> .....          | 46.33  |
| <i>annulipes</i> (Macquart), 1842 (Eristalis), <i>Palpada</i> .....          | 46.108 |
| <i>anona</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....                   | 46.12  |
| <i>antennalis</i> Philippi, 1865, <i>Sterphus</i> .....                      | 46.116 |
| <i>antennatum</i> Fluke, 1943, <i>Tuberculanostoma</i> .....                 | 46.45  |
| <i>anthermus</i> (Walker), 1849 (Ascia), <i>Mixogaster</i> .....             | 46.58  |
| <i>anthinone</i> (Hull), 1949 (Baccha), <i>Ocyptamus</i> .....               | 46.12  |
| <i>anthiphates</i> (Walker), 1849 (Syrphus), <i>Ocyptamus</i> .....          | 46.12  |
| <i>anthracoides</i> (Bigot), 1884 (Melanostoma), <i>Ocyptamus</i> .....      | 46.27  |
| <i>anthrax</i> (Schiner), 1868 (Mesogramma), <i>Toxomerus</i> .....          | 46.48  |
| <i>Antillus</i> Vockeroth, 1969 .....  | 46.33  |
| <i>Antiopa</i> Meigen, 1800 .....  | 46.40  |
| <i>antiopa</i> (Hull), 1942 (Eristalis), <i>Palpada</i> .....                | 46.103 |
| <i>antiopa</i> (Hull), 1951 (Mesogramma), <i>Toxomerus</i> .....             | 46.48  |
| <i>Antiops</i> Enderlein, 1938 .....   | 46.47  |
| <i>aperta</i> Fluke, 1942, <i>Allograpta</i> .....                           | 46.34  |
| <i>apertum</i> (Walker), 1860 (Volucella), <i>Copestylum</i> .....           | 46.71  |
| <i>apicale</i> (Loew), 1866 (Volucella), <i>Copestylum</i> .....             | 46.71  |
| <i>apicalis</i> (Bigot), 1883 (Baccha), <i>Leucopodella</i> .....            | 46.46  |
| <i>apicalis</i> Fluke, 1956, <i>Myolepta</i> .....                           | 46.90  |
| <i>apiciferum</i> (Townsend), 1895 (Volucella), <i>Copestylum</i> .....      | 46.71  |
| <i>apicula</i> (Curran), 1939 (Volucella), <i>Copestylum</i> .....           | 46.71  |
| <i>apiculus</i> Curran, 1930, <i>Microdon</i> .....                          | 46.61  |
| <i>apimima</i> Hull, 1944, <i>Mallota</i> .....                              | 46.100 |
| <i>Apophysophora</i> Williston, 1888 .....                                   | 46.70  |
| <i>aquilinus</i> Giglio-Tos, 1892, <i>Microdon</i> .....                     | 46.63  |
| <i>aquilinus</i> Sack, 1941 (Syrphus), <i>Toxomerus</i> .....                | 46.48  |
| <i>arabella</i> (Hull), 1947 (Baccha), <i>Ocyptamus</i> .....                | 46.12  |
| <i>arcifer</i> (Loew), 1866 (Mesograpta), <i>Toxomerus</i> .....             | 46.48  |
| <i>Arctophila</i> Schiner, 1860 .....  | 46.88  |
| <i>arctophiloides</i> (Giglio-Tos), 1892 (Crioprora), <i>Criorhina</i> ..... | 46.118 |
| <i>arcturus</i> (Hull), 1943 (Mesogramma), <i>Toxomerus</i> .....            | 46.48  |
| <i>arcuata</i> (Aldrich), 1905 (Xylota), <i>Asemosyrphus</i> .....           | 46.96  |
| <i>arcuata</i> Curran, 1941, <i>Microdon</i> .....                           | 46.66  |
| <i>ardua</i> (Wiedemann), 1830 (Volucella), <i>Copestylum</i> .....          | 46.85  |
| <i>arethusa</i> Hull, 1944, <i>Ceriogaster</i> .....                         | 46.115 |
| <i>arethusa</i> (Hull), 1949 (Baccha), <i>Ocyptamus</i> .....                | 46.13  |
| <i>argentifacies</i> Shannon & Aubertin, 1933, <i>Chamaesphegina</i> .....   | 46.91  |
| <i>argentina</i> (Bigot), 1883 (Phalacromyia), <i>Copestylum</i> .....       | 46.79  |
| <i>argentina</i> (Brèthes), 1922 (Chrysogaster), <i>Orthonevra</i> .....     | 46.91  |
| <i>argentinae</i> Hull, 1937, <i>Microdon</i> .....                          | 46.63  |
| <i>Argentinomyia</i> Lynch Arribálzaga, 1891 .....                           | 46.57  |
| <i>argentinus</i> (Curran), 1939 (Baccha), <i>Ocyptamus</i> .....            | 46.13  |
| <i>argentipila</i> (Fluke), 1942 (Epistrophe), <i>Allograpta</i> .....       | 46.34  |





|   |        |
|---|--------|
| <i>argyropila</i> (Hull), 1938 (Eristalis), Palpada .....           | 46.103 |
| <i>arica</i> (Fluke), 1950 (Volucella), Copestylum .....            | 46.71  |
| <i>aricia</i> (Curran), 1930 (Volucella), Copestylum .....          | 46.71  |
| <i>ariel</i> (Curran), 1941 (Planes), Neplas .....                  | 46.114 |
| <i>ariela</i> (Hull), 1944 (Baccha), Ocyptamus .....                | 46.13  |
| <i>arietis</i> (Loew), 1853 (Ceria), Polybiomyia .....              | 46.95  |
| <i>Aristosyrphus</i> Curran, 1941 .....                             | 46.57  |
| <i>armatipes</i> (Curran), 1941 (Planes), Neplas .....              | 46.114 |
| <i>armillata</i> (Fluke), 1942 (Epistrophe), Allograpta .....       | 46.34  |
| <i>arquatus</i> (Say), 1829 (Xylota), Asemosyrphus .....            | 46.96  |
| <i>arsenoe</i> , Fluke, 1956, Ocyptamus .....                       | 46.27  |
| <i>arsinoe</i> (Hull), 1949 (Baccha), Ocyptamus .....               | 46.27  |
| <i>arx</i> (Fluke), 1936 (Baccha), Ocyptamus .....                  | 46.13  |
| <i>ascita</i> (Vockerath), 1969 (Antillus), Allograpta .....        | 46.34  |
| <i>Asemosyrphus</i> Bigot, 1882 .....                               | 46.96  |
| <i>assimilis</i> Macquart, 1846, Eristalis .....                    | 46.102 |
| <i>astarte</i> (Hull), 1950 (Volucella), Copestylum .....           | 46.71  |
| <i>aster</i> (Curran), 1939 (Volucella), Copestylum .....           | 46.71  |
| <i>aster</i> (Curran), 1941 (Baccha), Ocyptamus .....               | 46.13  |
| <i>asthenia</i> (Hull), 1948 (Baccha), Leucopodella .....           | 46.46  |
| <i>Atemnocera</i> Bigot, 1882 .....                                 | 46.70  |
| <i>atra</i> Philippi, 1865, Macrometopia .....                      | 46.116 |
| <i>atrimana</i> (Loew), 1866 (Eristalis), Palpada .....             | 46.103 |
| <i>atropos</i> (Giglio-Tos), 1892 (Eristalis), Palpada .....        | 46.110 |
| <i>attenuatus</i> (Williston), 1891 (Baccha), Ocyptamus .....       | 46.13  |
| <i>Atylobaccha</i> Hull, 1949 .....                                 | 46.11  |
| <i>atypicus</i> (Curran), 1930 (Baccha), Ocyptamus .....            | 46.13  |
| <i>Aulacibaccha</i> Hull, 1949 .....                                | 46.11  |
| <i>aurantipes</i> (Bigot), 1857 (Cheilosia), Pipiza .....           | 46.67  |
| <i>aurata</i> (Walker), 1857 (Helophilus), Quichuana .....          | 46.98  |
| <i>aureopila</i> Hull, 1941, Ceriogaster .....                      | 46.115 |
| <i>aureorufa</i> (Philippi), 1865 (Eriophora), Aneriophora .....    | 46.118 |
| <i>aureoscutus</i> Hull, 1943, Microdon .....                       | 46.63  |
| <i>aureum</i> (Fluke), 1951 (Volucella), Copestylum .....           | 46.71  |
| <i>aureus</i> Hull, 1944, Microdon .....                            | 46.63  |
| <i>auricaudata</i> Williston, 1891, Myolepta .....                  | 46.89  |
| <i>auricaudatus</i> (Williston), 1892 (Ceriogaster), Sterphus ..... | 46.117 |
| <i>auricinctus</i> (Sack), 1921 (Rhopalosyrphus), Microdon .....    | 46.63  |
| <i>aurifacies</i> (Schiner), 1868 (Xylota), Sterphus .....          | 46.116 |
| <i>aurifacius</i> Hull, 1937, Microdon .....                        | 46.63  |
| <i>aurifascia</i> Hull, 1944, Microdon .....                        | 46.63  |
| <i>aurifer</i> Hull, 1942, Meromacrus .....                         | 46.111 |
| <i>aurifex</i> Wiedemann, 1830, Microdon .....                      | 46.63  |
| <i>aurifrons</i> Shannon, 1926, Sterphus .....                      | 46.116 |
| <i>aurigaster</i> Hull, 1941, Microdon .....                        | 46.63  |
| <i>auritecta</i> , Fluke, 1957, Cheilosia .....                     | 46.68  |
| <i>auropulveratus</i> Macquart, 1842 (Syrphus) .....                | 46.39  |
| <i>aurora</i> (Hull), 1943 (Baccha), Ocyptamus .....                | 46.13  |
| <i>aurotecta</i> Giglio-Tos, 1892, Cheilosia .....                  | 46.68  |
| <i>aurulentus</i> (Fabricius), 1805 (Mulio), Microdon .....         | 46.63  |
| <i>aurulentus</i> (Williston), 1887 (Mesograpta), Toxomerus .....   | 46.48  |
| <i>australis</i> (Shannon), 1927 (Fazia), Allograpta .....          | 46.36  |
| <i>Austrosyritta</i> Marnef, 1967 .....                             | 46.119 |
| <i>autumnalis</i> Philippi, 1865, Sterphus .....                    | 46.116 |
| <i>avidum</i> (Oosten Sacken), 1877 (Volucella), Copestylum .....   | 46.72  |

|  |        |
|--|--------|
| avispa Vockeroth, 1964, Alipumilio .....                                       | 46.92  |
| aztec Shannon, 1926, Chrysotoxum .....   | 46.40  |
| azteca (Curran), 1941 (Planes), Neplas .....                                   | 46.114 |
| aztecarum Wheeler, 1924, Nothomicrodon .....                                   | 46.67  |
| aztecus Hull, 1935, Eristalis .....  | 46.101 |
| azurea (Fluke), 1953 (Heliophilus), Xylota .....                               | 46.114 |
| azureum (Philippi), 1865 (Volucella), Copestylum .....                         | 46.72  |
| azurinum (Hull), 1941 (Volucella), Copestylum .....                            | 46.72  |
| azurlineus (Hull), 1941 (Mesogramma), Toxomerus .....                          | 46.48  |
| <i>Baccha</i> , authors .....  | 46.11  |
| <i>bacchiformis</i> (Vockeroth), 1969 (Hermesomyia), Ocyptamus ...             | 46.25  |
| balboa (Hull), 1947 (Baccha), Leucopodella .....                               | 46.46  |
| baliopterus Loew, 1872, Microdon .....   | 46.63  |
| banksi Hull, 1942, Microdon .....  | 46.63  |
| banksi (Hull), 1941 (Baccha), Ocyptamus .....                                  | 46.13  |
| barbiellinii (Ceresa), 1934 (Quichuana), Habromyia .....                       | 46.100 |
| barbiellinii Curran, 1936, Microdon .....                                      | 46.63  |
| barbipes (Loew), 1853 (Ceria), Sphiximorpha .....                              | 46.93  |
| barbouri Hull, 1942, Microdon .....  | 46.63  |
| barbulus (Walker), 1852 (Syrphus), Toxomerus .....                             | 46.48  |
| barrettoii (Carrera, Lopes & Lane), 1947 (Schizoceratomyia),<br>Microdon ..... | 46.61  |
| basalis Walker, 1837 (Syrphus) .....   | 46.39  |
| basiger (Walker), 1860 (Eristalis), Meromacrus .....                           | 46.111 |
| basilaris (Wiedemann), 1830 (Syrphus), Toxomerus .....                         | 46.48  |
| basilaris Williston, 1886 (Syrphus) .....                                      | 46.39  |
| bassleri (Curran), 1939 (Volucella), Copestylum .....                          | 46.72  |
| bassleri Curran, 1940, Microdon .....  | 46.63  |
| bassleri (Curran), 1939 (Baccha), Ocyptamus .....                              | 46.13  |
| bassleri (Curran), 1941 (Cerioides), Polybiomyia .....                         | 46.95  |
| batesi (Curran), 1939 (Baccha), Ocyptamus .....                                | 46.22  |
| batesi Shannon, 1927, Microdon .....   | 46.63  |
| batesi (Shannon), 1926 (Tatuomyia), Sterphus .....                             | 46.117 |
| beatricea (Hull), 1950 (Volucella), Copestylum .....                           | 46.72  |
| beatricea (Hull), 1942 (Baccha), Ocyptamus .....                               | 46.13  |
| beebei Curran, 1936, Microdon .....  | 46.63  |
| belinda (Hull), 1949 (Volucella), Copestylum .....                             | 46.72  |
| bella (Hull), 1947 (Baccha), Leucopodella .....                                | 46.46  |
| bella Townsend, 1897, Milesia .....  | 46.120 |
| bellardii Jaennicke, 1867, Eristalis .....                                     | 46.101 |
| bellula (Williston), 1882 (Chrysogaster), Orthonevra .....                     | 46.91  |
| bellula Williston, 1891, Pipiza .....  | 46.67  |
| bellulum (Williston), 1891 (Phalacromyia), Copetulum .....                     | 46.72  |
| bellulus (Williston), 1891 (Mixogaster), Microdon .....                        | 46.63  |
| bellum Giglio-Tos, 1892, Melanostoma .....                                     | 46.42  |
| bequaerti Curran, 1930, Copestylum .....                                       | 46.72  |
| bequaerti (Curran), 1936 (Volucella), Copestylum .....                         | 46.73  |
| bequaerti Curran, 1933, Salpingogaster .....                                   | 46.31  |
| bequaerti Hull, 1956, Mallota .....  | 46.99  |
| bequaerti (Hull), 1942 (Eristalis), Palpada .....                              | 46.103 |
| bergrothi (Williston), 1892 (Ceria), Polybiomyia .....                         | 46.95  |
| berthae Lima, 1946, Rhysops .....  | 46.42  |
| bertonii Bezzi, 1910, Microdon .....   | 46.66  |
| bertrandi (Austen), 1913 (Melanostoma), Carposcalis .....                      | 46.40  |



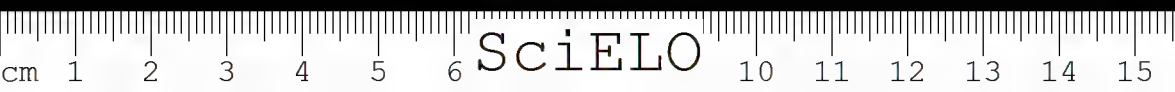
|   |        |
|---|--------|
| <i>bezzii</i> Ceresa, 1934, Quichuana .....                                 | 46.98  |
| <i>biarcuatus</i> (Fluke), 1937 (Epistrophe), Ocytamus .....                | 46.14  |
| <i>bicincta</i> (Bigot), 1884 (Mesograpta?), Allograpta .....               | 46.34  |
| <i>bicolor</i> Bigot, 1882, Asemosyrphus .....                              | 46.96  |
| <i>bicolor</i> (Kertész), 1902 (Ceria), Monoceromyia .....                  | 46.94  |
| <i>bicolor</i> Sack, 1920, Salpingogaster .....                             | 46.31  |
| <i>bicolor</i> (Shannon & Aubertin), 1933 (Chilosia), Chromocheilosia ..... | 46.90  |
| <i>bicolor</i> (Walker), 1857 (Ceratophya), Microdon .....                  | 46.63  |
| <i>bicolor</i> (Walker), 1852 (Merodon), Polydontomyia .....                | 46.96  |
| <i>bidens</i> (Curran), 1941 (Planes), Neplas .....                         | 46.119 |
| <i>bidens</i> (Fabricius), 1805 (Mulio), Microdon .....                     | 46.63  |
| <i>bidentatus</i> (Giglio-Tos), 1893 (Mesogramma), Toxomerus .....          | 46.48  |
| <i>bifasciata</i> Enderlein, 1938, Allograpta .....                         | 46.37  |
| <i>bifasciata</i> (Macquart), 1855 (Eristalis), Palpada .....               | 46.105 |
| <i>bifidus</i> (Hull), 1943 (Mesogramma), Toxomerus .....                   | 46.48  |
| <i>bigoti</i> (Austen), 1893 (Baccha), Leucopodella .....                   | 46.46  |
| <i>bigotii</i> , Hull, 1949, Leucopodella .....                             | 46.46  |
| <i>bigotii</i> (Williston), 1888 (Ceria), Sphiximorpha .....                | 46.93  |
| <i>biguttatus</i> Hull, 1945, Xanthadrus .....                              | 46.44  |
| <i>bilineata</i> Enderlein, 1938, Allograpta .....                          | 46.34  |
| <i>bilineella</i> Enderlein, 1938, Allograpta .....                         | 46.34  |
| <i>biluminiferus</i> Hull, 1944, Microdon .....                             | 46.64  |
| <i>bimaculata</i> (Bigot), 1883 (Priomerus), Palpada .....                  | 46.109 |
| <i>bimaculata</i> Enderlein, 1938, Allograpta .....                         | 46.36  |
| <i>bimaculatum</i> (Sack), 1941 (Phalacromyia), Copestylum .....            | 46.72  |
| <i>binominatum</i> (Goot), 1964 (Volucella), Copestylum .....               | 46.72  |
| <i>bipunctatum</i> (Hull), 1941 (Phalacromyia), Copestylum .....            | 46.72  |
| <i>bipunctatus</i> (Hull), 1943 (Mesogramma), Toxomerus .....               | 46.48  |
| <i>bipunctifrons</i> Curran, 1934, Salpingogaster .....                     | 46.31  |
| <i>bipunctipennis</i> (Hull), 1942 (Baccha), Leucopodella .....             | 46.46  |
| <i>bisinterrupta</i> (Enderlein), 1938 (Fazia), Allograpta .....            | 46.34  |
| <i>bisinuatus</i> Williston, 1891, Syrphus .....                            | 46.8   |
| <i>bispina</i> Hull, 1943, Microdon .....                                   | 46.64  |
| <i>bistellata</i> (Hull), 1935 (Eristalis), Palpada .....                   | 46.103 |
| <i>bistriga</i> (Bigot), 1884 (Mesograpta?), Toxomerus .....                | 46.48  |
| <i>bistrigata</i> Aldrich, 1905, Toxomerus .....                            | 46.48  |
| <i>bivittata</i> (Bigot), 1884 (Xylota), Tropidia .....                     | 46.120 |
| <i>bivittatus</i> (Curran), 1941 (Baccha), Ocytamus .....                   | 46.13  |
| <i>Blera</i> Billberg, 1820 .....   | 46.119 |
| <i>boabdilla</i> (Hull), 1947 (Baccha), Leucopodella .....                  | 46.46  |
| <i>boadicea</i> (Hull), 1943 (Baccha), Leucopodella .....                   | 46.46  |
| <i>bogotensis</i> Macquart, 1842, Eristalis .....                           | 46.101 |
| <i>bolivariensis</i> (Fluke), 1945 (Melanostoma), Rhysops .....             | 46.42  |
| <i>boliviana</i> (Kertész), 1903 (Ceria), Sphiximorpha .....                | 46.93  |
| <i>bolivianum</i> (Hine), 1914 (Volucella), Copestylum .....                | 46.72  |
| <i>boliviensis</i> (Shannon), 1926 (Planes), Neplas .....                   | 46.114 |
| <i>boliviensis</i> (Shannon), 1927 (Halictomyia), Trichopsomyia .....       | 46.68  |
| <i>bombusoides</i> Giglio-Tos, 1892, Eristalis .....                        | 46.102 |
| <i>bonariensis</i> (Brêthes), 1905 (Baccha), Ocytamus .....                 | 46.13  |
| <i>bonariensis</i> Lynch Arribálzaga, 1891, Microdon .....                  | 46.64  |
| <i>bonariensis</i> Lynch Arribálzaga, 1892, Nausigaster .....               | 46.92  |
| <i>boraceiensis</i> (Papavero), 1962 (Ceratophya), Argentinomyia .....      | 46.57  |
| <i>borgmeieri</i> Lane & Carrera, 1944, Quichuana .....                     | 46.98  |
| <i>boscii</i> (Macquart), 1842 (Syrphus), Toxomerus .....                   | 46.49  |
| <i>brachygaster</i> Williston, 1892, Xylota .....                           | 46.114 |



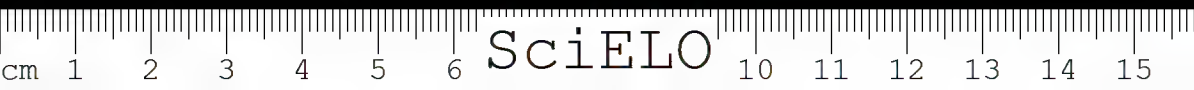
|   |        |
|---|--------|
| Brachyopa Meigen, 1822 .....                                    | 46.92  |
| bradleyi (Curran), 1925 (Volucella), Copestylum .....           | 46.72  |
| brauerii (Williston), 1888 (Ceria), Sphiximorpha .....          | 46.93  |
| Braziliana Curran, 1925 .....                                   | 46.42  |
| braziliana (Shannon), 1927 (Eumyiolepta), Myolepta .....        | 46.90  |
| brazilianum (Hull), 1938 (Volucella), Copestylum .....          | 46.72  |
| braziliensis (Curran), 1939 (Baccha), Ocyptamus .....           | 46.13  |
| braziliensis (Goot), 1964 (Eristalis), Palpada .....            | 46.103 |
| brethesi (Shannon), 1928 (Lepidostola), Lepidomyia .....        | 46.88  |
| breve (Giglio-Tos), 1892 (Volucella), Copestylum .....          | 46.72  |
| brevicera Hull, 1946, Quichuana .....                           | 46.99  |
| brevifacia (Hull), 1943 (Mesogramma), Toxomerus .....           | 46.49  |
| brevifacies (Curran), 1934 (Volucella), Copestylum .....        | 46.72  |
| brevifacies (Hull), 1943i (Mesogramma), Toxomerus .....         | 46.49  |
| brevipennis (Schiner), 1868 (Baccha), Ocyptamus .....           | 46.13  |
| brevivillosa (Hull), 1937 (Eristalis), Palpada .....            | 46.103 |
| brevivittatum (Curran), 1930 (Volucella), Copestylum .....      | 46.72  |
| bromleyi (Curran), 1929 (Baccha), Ocyptamus .....               | 46.14  |
| browni Curran, 1941, Salpingogaster .....                       | 46.31  |
| browni Fluke, 1942, Allograpta .....                            | 46.34  |
| browni (Fluke), 1945 (Melanostoma), Rhysops .....               | 46.42  |
| browni Fluke, 1943, Tuberculanostoma .....                      | 46.45  |
| bruchii Shannon, 1927, Microdon .....                           | 46.64  |
| bruesi Hull, 1945, Microdon .....                               | 46.64  |
| bruneri (Curran), 1939 (Volucella), Copestylum .....            | 46.72  |
| bruneri Curran, 1936, Meromacrus .....                          | 46.111 |
| bruneri Curran, 1932, Salpingogaster .....                      | 46.31  |
| brunneola Frey, 1946 (Neoscaeva), Allograpta .....              | 46.35  |
| brunneus Hull, 1942, Meromacrus .....                           | 46.111 |
| brunnicolor (Hull), 1938 (Volucella), Copestylum .....          | 46.72  |
| brunnigaster (Hull), 1943 (Volucella), Copestylum .....         | 46.72  |
| brunnipennis Hull, 1944, Microdon .....                         | 46.63  |
| brunnipennis (Hull), 1942 (Baccha), Ocyptamus .....             | 46.14  |
| brutus Hull, 1944, Microdon .....                               | 46.64  |
| bucephalus (Wiedemann), 1830 (Syrphus), Xanthandrus .....       | 46.44  |
| bulbosum (Fluke), 1951 (Volucella), Copestylum .....            | 46.73  |
| bullaeophora (Shannon), 1927 (Fazia), Allograpta .....          | 46.34  |
| caetica (Walker), 1860 (Ceria), Monoceromyia .....              | 46.94  |
| Cacoceria Hull, 1936 .....                                      | 46.91  |
| Cacomylia Hull, 1930 .....                                      | 46.91  |
| caesar Curran, 1940, Microdon .....                             | 46.64  |
| caesariatum (Williston), 1891 (Volucella), Copestylum .....     | 46.73  |
| calathea Shannon, 1925, Quichuana .....                         | 46.98  |
| calceolatus (Macquart), 1842 (Syrphus), Toxomerus .....         | 46.49  |
| caldus (Walker), 1852 (Syrphus), Ocyptamus .....                | 46.14  |
| caliginosa (Walker), 1849 (Eristalis), Palpada .....            | 46.103 |
| calla (Curran), 1941 (Baccha), Ocyptamus .....                  | 46.14  |
| Callicera Panzer, 1809 .....                                    | 46.88  |
| Callicerini .....   | 46.88  |
| callidus (Hine), 1914 (Baccha), Ocyptamus .....                 | 46.14  |
| calliphoroides (Bigot), 1885 (Dimorphomyia), Asemosyrphus ..... | 46.97  |
| Calliscaeva Frey, 1946 .....                                    | 46.11  |
| Callistigma Hull, 1944 .....                                    | 46.11  |



|  |        |
|--|--------|
| <i>Callisyrrhus</i> Frey, 1946 .....   | 46.11  |
| <i>Callostigma</i> Curran, 1930, 1941 .....  | 46.11  |
| <i>calochaetum</i> (Hull), 1941 ( <i>Volucella</i> ), <i>Copestylum</i> .....        | 46.73  |
| <i>calomera</i> (Bigot), 1880 ( <i>Eristalomyia</i> ), <i>Palpada</i> .....          | 46.104 |
| <i>calops</i> (Bigot), 1880 ( <i>Eristalomyia</i> ), <i>Palpada</i> .....            | 46.104 |
| <i>calopus</i> Loew, 1864, <i>Lepidomyia</i> .....                                   | 46.88  |
| <i>Calostigma</i> Shannon, 1927 .....  | 46.11  |
| <i>Camerania</i> Giglio-Tos, 1891 .....  | 46.70  |
| <i>camilla</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....            | 46.49  |
| <i>camposi</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.73  |
| <i>camrasi</i> (Sedman), 1965 ( <i>Valdivia</i> ), <i>Valdiviomyia</i> .....         | 46.118 |
| <i>canusium</i> (Walker), 1849 ( <i>Milesia</i> ), <i>Meromacrus</i> .....           | 46.111 |
| <i>capitatus</i> (Loew), 1863 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.14  |
| <i>capitis</i> (Curran), 1925 ( <i>Cerioides</i> ), <i>Polybiomyia</i> .....         | 46.95  |
| <i>carinifacies</i> Curran, 1934, <i>Microdon</i> .....                              | 46.59  |
| <i>carlota</i> (Curran), 1929 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.14  |
| <i>carmelita</i> (Hull), 1948 ( <i>Baccha</i> ), <i>Leucopodella</i> .....           | 46.46  |
| <i>carolae</i> (Capelle), 1956 ( <i>Rhopalosyrphus</i> ), <i>Microdon</i> .....      | 46.60  |
| <i>carpenteri</i> (Hull), 1945 ( <i>Ceratophya</i> ), <i>Argentinomyia</i> .....     | 46.57  |
| <i>Carposcalis</i> Enderlein, 1938 .....   | 46.40  |
| <i>carrerae</i> (Papavero), 1962 ( <i>Masarygus</i> ), <i>Microdon</i> .....         | 46.61  |
| <i>Carreramyia</i> Doesburg, 1966 .....  | 46.61  |
| <i>Cartosyrphus</i> Bigot, 1883 .....  | 46.69  |
| <i>castanea</i> (Bigot), 1875 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.82  |
| <i>catabomba</i> (Williston), 1891 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....      | 46.42  |
| <i>catharinensis</i> (Enderlein), 1938 ( <i>Pipiza</i> ), <i>Trichopsomyia</i> ..... | 46.68  |
| <i>cecrops</i> (Hull), 1958 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.14  |
| <i>celia</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                  | 46.14  |
| <i>centaureus</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....         | 46.49  |
| <i>Cerathophya</i> Wiedemann, 1830 .....   | 46.59  |
| <i>Ceratophya</i> Wiedemann, 1824 .....  | 46.59  |
| <i>cereberus</i> (Hull), 1891 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.14  |
| <i>ceres</i> Hull, 1942, <i>Meromacrus</i> .....                                     | 46.111 |
| <i>Ceriodes</i> , auctorum .....   | 46.93  |
| <i>Ceriogaster</i> Williston, 1888 .....   | 46.115 |
| <i>cerioides</i> Hull, 1943, <i>Microdon</i> .....                                   | 46.64  |
| <i>Cerioides</i> Rondani, 1850 .....   | 46.93  |
| <i>Cerioidini</i> .....  | 46.93  |
| <i>Ceriomicrodon</i> , Hull, 1937 .....  | 46.60  |
| <i>Cerioimicrodon</i> , Hull, 1937 .....   | 46.60  |
| <i>cestus</i> Hull, 1946, <i>Quichuana</i> .....                                     | 46.98  |
| <i>chaetogaster</i> (Hull), 1943 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.73  |
| <i>chaetophorum</i> (Williston), 1887 ( <i>Volucella</i> ), <i>Copestylum</i> .....  | 46.73  |
| <i>chaetopoda</i> (Davidson), 1922 ( <i>Melanostoma</i> ), <i>Carposcalis</i> .....  | 46.40  |
| <i>chalconota</i> Philippi, 1865 ( <i>Syrphus</i> ), <i>Carposcalis</i> .....        | 46.40  |
| <i>chalybescens</i> (Wiedemann), 1830 ( <i>Volucella</i> ), <i>Copestylum</i> .....  | 46.73  |
| <i>Chamaesphegina</i> Shannon & Aubertin, 1933 .....                                 | 46.91  |
| <i>Chamaesyrphus</i> Mik, 1895 .....   | 46.69  |
| <i>championi</i> (Williston), 1892 ( <i>Mallota</i> ), <i>Quichuana</i> .....        | 46.98  |
| <i>chapadense</i> (Curran), 1930 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.73  |
| <i>chapadensis</i> (Curran), 1930 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....          | 46.14  |
| <i>Chasmia</i> Enderlein, 1938 .....   | 46.33  |
| <i>Cheilisia</i> Meigen, 1822 .....  | 46.68  |
| <i>Cheilosini</i> .....  | 46.68  |



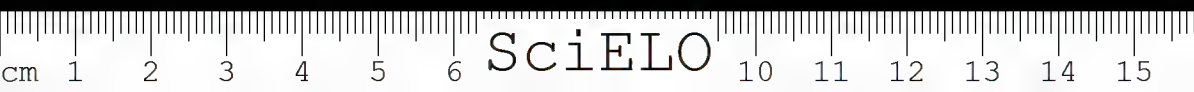
|   |        |
|---|--------|
| chilena (Rondani), 1863 (Eritalomya), Palpada .....               | 46.104 |
| chilensis, auctorum, Dolichogyna .....                            | 46.97  |
| chilensis (Goot), 1964 (Syrphus), Scaeva .....                    | 46.9   |
| chilensis (Philippi), 1865 (Eristalis), Palpada .....             | 46.104 |
| chilensis Sack, 1941, Allograpta .....                            | 46.37  |
| chilensis (Walker), 1837, Dolichogyna .....                       | 46.97  |
| chiliensis (Guérin-Ménéville), 1835 (Helophilus), Dolichogyna ... | 46.97  |
| Chilosia, auctorum .....  | 46.68  |
| Chimophila, Osten Sacken, 1876, 1878 .....                        | 46.59  |
| chiquitensis Macquart, 1850 (Syrphus) .....                       | 45.39  |
| chiragra Fabricius, 1805 (Merodon) .....                          | 46.122 |
| chlorops (Hull), 1948 (Planes), Neplas .....                      | 46.114 |
| chloropyga (Schiner), 1868 (Xylota), Sterphus .....               | 46.117 |
| chlorosum (Hull), 1930 (Volucella), Copestylum .....              | 46.73  |
| Chromocheilosia Hull & Fluke, 1950 .....                          | 46.90  |
| chrysidiformis (Hull), 1944 (Chrysidimya), Microdon .....         | 46.64  |
| chrysidiformis Shannon, 1922, Nausigaster .....                   | 46.92  |
| chrysidimimus (Hull), 1937 (Chrysidimya), Microdon .....          | 46.64  |
| Chrysidimya Hull, 1937 .....                                      | 46.59  |
| chrysochlamys Williston, 1891, Cheilosia .....                    | 46.68  |
| Chrysogaster, auctorum (part) .....                               | 46.91  |
| Chrysogasterini .....   | 46.88  |
| chrysopressa (Hull), 1941 (Planes), Neplas .....                  | 46.114 |
| chrysopygus (Giglio-Tos), 1892 (Ubristes), Microdon .....         | 46.61  |
| chrysotaenia Fluke, 1937, Habromyia .....                         | 46.100 |
| Chrysotoxini .....  | 46.40  |
| Chrysotoxum Meigen, 1803 .....                                    | 46.40  |
| Chymophila Macquart, 1834 .....                                   | 46.59  |
| cicatrix Hull, 1954, Mixogaster .....                             | 46.58  |
| ciliatus (Giglio-Tos), 1892 (Mesogramma), Toxomerus .....         | 46.49  |
| cillum Fluke, 1943, Tuberculanostoma .....                        | 46.45  |
| cincta (Bigot), 1883 (Lepidomyia), Quichuana .....                | 46.98  |
| cinctiventre (Curran), 1930 (Volucella), Copestylum .....         | 46.73  |
| cinctus (Drury), 1770 (Musca), Meromacrus .....                   | 46.111 |
| cingulatus Sack, 1920, Meromacrus .....                           | 46.112 |
| circe (Curran), 1939 (Volucella) Copestylum .....                 | 46.73  |
| circe Williston, 1891, Eristalis .....                            | 46.102 |
| circularis (Hull), 1941 (Eumyiolepta), Myolepta .....             | 46.90  |
| circumcinctus (Enderlein), 1938 (Mesogramma), Toxomerus ...       | 46.52  |
| circumdatum (Walker), 1857 (Temnocera), Copestylum .....          | 46.73  |
| circumdatus (Bigot), 1875 (Sphixea), Meromacrus .....             | 46.112 |
| circumdatus (Bigot), 1884 (Mesograpta?), Toxomerus .....          | 46.49  |
| circumscriptum (Curran), 1939 (Volucella), Copestylum .....       | 46.73  |
| claracuneus (Hull), 1942 (Mesogramma), Toxomerus .....            | 46.49  |
| clarapex (Wiedemann), 1830 (Syrphus), Ocyptamus .....             | 46.14  |
| Claraplumula Shannon, 1927 .....                                  | 46.33  |
| claripenne (Curran), 1925 (Phalacromyia), Copestylum .....        | 46.73  |
| claripennis (Hine), 1914 (Mixogaster), Microdon .....             | 46.64  |
| claripennis (Hull), 1949 (Eristalis), Palpada .....               | 46.104 |
| claripennis Shannon & Aubertin, 1933, Pipiza .....                | 46.67  |
| clarissima (Giglio-Tos), 1892 (Eristalis), Palpada .....          | 46.104 |
| clarum (Hull), 1942 (Volucella), Copestylum .....                 | 46.73  |
| clarus (Curran), 1930 (Mesogramma), Toxomerus .....               | 46.49  |
| claudia (Curran), 1930 (Eristalis), Palpada .....                 | 46.104 |
| clavatus (Fabricius), 1794 (Syrphus), Pseudodoros .....           | 46.10  |



|   |        |
|---|--------|
| <i>clavicornis</i> Curran, 1940, <i>Microdon</i> .....                                    | 46.64  |
| <i>coarctatus</i> Loew, 1864, <i>Microdon</i> .....                                       | 46.64  |
| <i>coarctatus</i> (Wiedemann), 1830 ( <i>Xylota</i> ), <i>Sterphus</i> .....              | 46.117 |
| <i>cobboldia</i> (Hull), 1958 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                   | 46.14  |
| <i>cochenillivorus</i> (Guérin-Ménéville), 1848 ( <i>Baccha</i> ), <i>Ocyptamus</i> ..... | 46.14  |
| <i>cocheri</i> Fluke, 1956, <i>Toxomerus</i> .....  | 46.49  |
| <i>cockerelli</i> (Curran), 1927 ( <i>Volucella</i> ), <i>Copestylum</i> .....            | 46.73  |
| <i>coeruleus</i> (Williston), 1891 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.14  |
| <i>coeruleithorax</i> Williston, 1888, <i>Habromyia</i> .....                             | 46.100 |
| <i>coerulescens</i> Macquart, 1834, <i>Senogaster</i> .....                               | 46.119 |
| <i>coeruleus</i> (Rondani), 1863 ( <i>Xylota</i> ), <i>Sterphus</i> .....                 | 46.116 |
| <i>coesariata</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> .....        | 46.73  |
| <i>?cognata</i> (Rondani), 1848 ( <i>Eristalis</i> ), <i>Palpada</i> .....                | 46.39  |
| <i>colludens</i> Walker, 1860 ( <i>Syrphus</i> ) .....                                    | 46.39  |
| <i>colombia</i> Curran, 1925, <i>Allograpta</i> .....                                     | 46.34  |
| <i>colombia</i> (Curran), 1929 ( <i>Lepidostola</i> ), <i>Lepidomyia</i> .....            | 46.88  |
| <i>columbianum</i> Enderlein, 1938 ( <i>Melanostoma</i> ) .....                           | 46.47  |
| <i>colombianus</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.14  |
| <i>columbianus</i> (Enderlein), 1938 ( <i>Braziliana</i> ), <i>Rhysops</i> .....          | 46.42  |
| <i>columbianus</i> Rondani, 1863 ( <i>Syrphus</i> ) .....                                 | 46.39  |
| <i>colombiense</i> Thompson, <i>Copestylum</i> .....                                      | 46.73  |
| <i>colombii</i> Macquart, 1850, <i>Mallota</i> .....                                      | 46.100 |
| <i>columbica</i> (Macquart), 1855 ( <i>Eristalis</i> ), <i>Palpada</i> .....              | 46.104 |
| <i>columella</i> Fluke, 1945, <i>Rhysops</i> .....  | 46.43  |
| <i>comastes</i> (Williston), 1891 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.86  |
| <i>comma</i> (Giglio-Tos), 1892 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....             | 46.49  |
| <i>compactum</i> (Curran), 1925 ( <i>Lepidopsis</i> ), <i>Copestylum</i> .....            | 46.73  |
| <i>compressa</i> Curran, 1941, <i>Salpingogaster</i> .....                                | 46.32  |
| <i>comstocki</i> (Williston), 1887 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.74  |
| <i>comstocki</i> (Williston), 1882, <i>Senogaster</i> .....                               | 46.120 |
| <i>communis</i> Walker, 1849, <i>Xylota</i> .....   | 46.114 |
| <i>concinnum</i> (Philippi), 1865 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.74  |
| <i>concinnum</i> (Williston), 1891 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.15  |
| <i>concolor</i> (Philippi), 1865 ( <i>Phalacromyia</i> ), <i>Copestylum</i> .....         | 46.80  |
| <i>concolor</i> (Philippi), 1865 ( <i>Eristalis</i> ), <i>Palpada</i> .....               | 46.104 |
| <i>conformis</i> Loew, 1866, <i>Ocyptamus</i> .....                                       | 46.15  |
| <i>confusus</i> (Goot), 1964 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                    | 46.15  |
| <i>confusus</i> (Schiner), 1868 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....             | 46.49  |
| <i>congrua</i> (Wulp), 1888 ( <i>Eristalis</i> ), <i>Palpada</i> .....                    | 46.104 |
| <i>conica</i> (Fabricius), 1805 ( <i>Milesia</i> ), <i>Palpada</i> .....                  | 46.104 |
| <i>conifacium</i> (Hull), 1943 ( <i>Volucella</i> ), <i>Copestylum</i> .....              | 46.74  |
| <i>conjunctus</i> (Wiedemann), 1830 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....            | 46.15  |
| <i>connexus</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                    | 46.21  |
| <i>Conocotamyia</i> Fluke, 1951 .....   | 46.97  |
| <i>conopida</i> (Philippi), 1865 ( <i>Baccha</i> ), <i>Salpingogaster</i> .....           | 46.32  |
| <i>conopoides</i> Kertész, 1910, <i>Mixogaster</i> .....                                  | 46.58  |
| <i>conops</i> Curran, 1940, <i>Microdon</i> .....   | 46.64  |
| <i>conopseus</i> , Williston, 1886, <i>Mixogaster</i> .....                               | 46.58  |
| <i>conopsoides</i> Macquart, 1842, <i>Mixogaster</i> .....                                | 46.58  |
| <i>contigua</i> Macquart, 1847, <i>Sphaerophoria</i> .....                                | 46.38  |
| <i>contumax</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....              | 46.74  |
| <i>Copestylum</i> Macquart, 1846 .....  | 46.70  |
| <i>coquilletti</i> (Williston), 1891 ( <i>Didea</i> ), <i>Dideomima</i> .....             | 46.10  |
| <i>cora</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                      | 46.15  |
| <i>cora</i> (Hull), 1949 ( <i>Eristalis</i> ), <i>Palpada</i> .....                       | 46.104 |

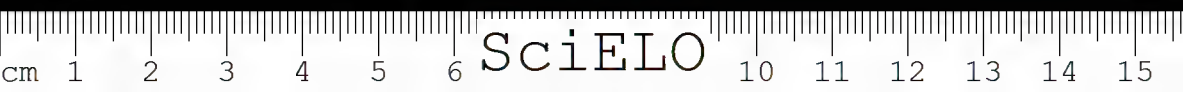


|   |        |
|---|--------|
| <i>corbiculipes</i> (Papavero), 1962 ( <i>Hypselosyrphus</i> ), <i>Microdon</i> ..... | 46.61  |
| <i>cordelia</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.15  |
| <i>cordiae</i> (Townsend), 1897 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.74  |
| <i>coreopsis</i> (Hull), 1944 ( <i>Callistigma</i> ), <i>Ocyptamus</i> .....          | 46.15  |
| <i>cornuta</i> Hull, 1944, <i>Salpingogaster</i> .....                                | 46.31  |
| <i>corona</i> Curran, 1949, <i>Microdon</i> .....                                     | 46.64  |
| <i>correctum</i> (Curran), 1927 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.74  |
| <i>cortesi</i> (Marnef), 1967 ( <i>Austrosyritta</i> ), <i>Syritta</i> .....          | 46.119 |
| <i>corumbense</i> (Curran), 1930 ( <i>Volucella</i> ), <i>Copestylum</i> .....        | 46.74  |
| <i>cosmia</i> (Schiner), 1868 ( <i>Eristalis</i> ), <i>Palpada</i> .....              | 46.104 |
| <i>costalis</i> (Walker), 1837 ( <i>Pipiza</i> ), <i>Ocyptamus</i> .....              | 46.19  |
| <i>costalis</i> (Walker), 1852 ( <i>Amathia</i> ), <i>Salpingogaster</i> .....        | 46.31  |
| <i>costalis</i> (Wiedemann), 1830 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....          | 46.49  |
| <i>costatus</i> (Say), 1829 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                 | 46.15  |
| <i>cothurnata</i> Bigot, 1883, <i>Salpingogaster</i> .....                            | 46.31  |
| <i>crassicalx</i> Enderlein, 1938 ( <i>Pachysphyria</i> ) .....                       | 46.47  |
| <i>crassipes</i> (Fabricius), 1805 ( <i>Merodon</i> ), <i>Meromacrus</i> .....        | 46.112 |
| <i>crassitarsis</i> (Macquart), 1848 ( <i>Aphritis</i> ), <i>Microdon</i> .....       | 46.64  |
| <i>crassus</i> (Walker), 1852 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.15  |
| <i>craverii</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> .....      | 46.74  |
| <i>crenulatus</i> (Williston), 1891 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....      | 46.42  |
| <i>Crepidomyia</i> Shannon, 1926 .....  | 46.116 |
| <i>crepuscularium</i> (Hull), 1942 ( <i>Volucella</i> ), <i>Copestylum</i> .....      | 46.74  |
| <i>crepuscellata</i> (Hull), 1946 ( <i>Lepidostola</i> ), <i>Lepidomyia</i> .....     | 46.88  |
| <i>cressoni</i> (Hull), 1930 ( <i>Cacomyia</i> ), <i>Cacoceria</i> .....              | 46.91  |
| <i>Criorhina</i> Meigen, 1822 .....   | 46.118 |
| <i>Criorthrinx</i> Hull, 1949 .....   | 46.100 |
| <i>croceatus</i> (Austen), 1893 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.15  |
| <i>croceimaculata</i> (Jacobs), 1900 ( <i>Eristalis</i> ), <i>Palpada</i> .....       | 46.104 |
| <i>croceipes</i> (Bigot), 1880 ( <i>Eristalomyia</i> ), <i>Palpada</i> .....          | 46.104 |
| <i>croceus</i> (Austen), 1893 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.15  |
| <i>crockeri</i> (Curran), 1934 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....          | 46.49  |
| <i>croesus</i> (Hull), 1940 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....             | 46.49  |
| <i>cruciatum</i> Bigot, 1884, <i>Melanostoma</i> .....                                | 46.42  |
| <i>cruciatum</i> (Hull), 1943 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.74  |
| <i>crucifer</i> Bigot, 1847, <i>Meromacrus</i> .....                                  | 46.111 |
| <i>cruciger</i> (Wiedemann), 1830 ( <i>Milesia</i> ), <i>Meromacrus</i> .....         | 46.111 |
| <i>crypticus</i> (Hull), 1942 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.15  |
| <i>Cryptineura</i> Bigot, 1859 .....  | 46.91  |
| <i>cubana</i> Curran, 1932, <i>Allograpta</i> .....                                   | 46.34  |
| <i>cubanus</i> Fluke, 1936, <i>Xanthandrus</i> .....                                  | 46.44  |
| <i>cubanus</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                 | 46.15  |
| <i>cubensis</i> Curran, 1932, <i>Mixogaster</i> .....                                 | 46.58  |
| <i>cubensis</i> (Macquart), 1850 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....            | 46.15  |
| <i>cubensis</i> (Macquart), 1842 ( <i>Eristalis</i> ), <i>Palpada</i> .....           | 46.103 |
| <i>cubomaculatum</i> (Hull), 1937 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.74  |
| <i>cultratus</i> (Austen), 1893 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.15  |
| <i>cultrinus</i> (Curran), 1939 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.16  |
| <i>cuprescens</i> (Hull), 1941 ( <i>Planes</i> ), <i>Neplas</i> .....                 | 46.114 |
| <i>cupricolor</i> (Hull), 1948 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.74  |
| <i>cuprinus</i> (Bigot), 1884 ( <i>Mesogramma</i> ?), <i>Toxomerus</i> .....          | 46.53  |
| <i>curiosum</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.74  |
| <i>currani</i> (Fluke), 1951 ( <i>Volucella</i> ), <i>Copestylum</i> .....            | 46.74  |
| <i>currani</i> Fluke, 1937, <i>Rhysops</i> .....                                      | 46.43  |
| <i>currani</i> Fluke, 1937, <i>Trichopsomyia</i> .....                                | 46.68  |
| <i>currani</i> Goot, 1964, <i>Microdon</i> .....                                      | 46.64  |



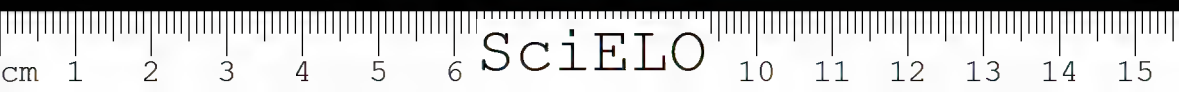


|  |        |
|--|--------|
| <i>currani</i> Hull, 1942, <i>Meromacrus</i> .....                                 | 46.112 |
| <i>currani</i> Hull, 1954, <i>Mixogaster</i> .....                                 | 46.58  |
| <i>currani</i> (Hull), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.16  |
| <i>curvipes</i> (Wiedemann), 1830 ( <i>Merodon</i> ), <i>Polydontomyia</i> .....   | 46.96  |
| <i>cyanea</i> Philippi, 1865, <i>Pia</i> .....                                     | 46.122 |
| <i>cyaneifera</i> (Walker), 1849 ( <i>Eristalis</i> ), <i>Palpada</i> .....        | 46.109 |
| <i>cyaneiventris</i> (Macquart), 1846 ( <i>Aphritis</i> ), <i>Microdon</i> .....   | 46.64  |
| <i>cyaneocincta</i> Bigot, 1885 ( <i>Melanostoma</i> ) .....                       | 46.47  |
| <i>cyanescens</i> Macquart, 1834 ( <i>Helophilus</i> ) .....                       | 46.122 |
| <i>cyanescens</i> (Macquart), 1842 ( <i>Volucella</i> ), <i>Copestylum</i> .....   | 46.74  |
| <i>cyaneum</i> Philippi, 1865, <i>Stilbosoma</i> .....                             | 46.121 |
| <i>cyaneus</i> Perty, 1830, <i>Microdon</i> .....                                  | 46.64  |
| <i>cyancephala</i> (Philippi), 1865 ( <i>Sterphus</i> ), <i>Philippimyia</i> ..... | 46.119 |
| <i>cyanoproctum</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....   | 46.74  |
| <i>cyanoprora</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....     | 46.74  |
| <i>cyanoventris</i> , Williston, 1886, <i>Microdon</i> .....                       | 46.64  |
| <i>cyatheus</i> (Hull), 1925 ( <i>Eristalis</i> ), <i>Palpada</i> .....            | 46.109 |
| <i>cybele</i> (Hull), 1947 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.16  |
| <i>cybele</i> (Hull), 1951 ( <i>Crepidomyia</i> ), <i>Sterphus</i> .....           | 46.117 |
| <i>cyclops</i> (Hull), 1947 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.16  |
| <i>cylindricus</i> (Fabricius), 1781 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....    | 46.16  |
| <i>cylindrica</i> (Say), 1824 ( <i>Syrphus</i> ), <i>Sphaerophoria</i> .....       | 46.38  |
| <i>cymbellina</i> (Hull), 1944 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.16  |
| <i>cyrillus</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....         | 46.49  |
| <i>dactylopiana</i> Blanchard, 1938, <i>Salpingogaster</i> .....                   | 46.33  |
| <i>danaida</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.16  |
| <i>daphnaeus</i> (Walker), 1849 ( <i>Ceria</i> ), <i>Monoceromyia</i> .....        | 46.94  |
| <i>darlingtoni</i> (Hull), 1944 ( <i>Crepidomyia</i> ), <i>Sterphus</i> .....      | 46.117 |
| <i>darwini</i> (Shannon), 1927 ( <i>Valdivia</i> ), <i>Valdiviomyia</i> .....      | 46.118 |
| <i>Dasyrphus</i> Enderlein, 1938 .....   | 46.10  |
| <i>debasa</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.16  |
| <i>deceptor</i> (Curran), 1925 ( <i>Phalacromyia</i> ), <i>Copestylum</i> .....    | 46.74  |
| <i>deceptor</i> (Curran), 1930 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.16  |
| <i>decemmaculatus</i> Rondani, 1863 ( <i>Syrphus</i> ) .....                       | 46.39  |
| <i>decipiens</i> (Williston), 1891 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....      | 46.16  |
| <i>decora</i> (Perty), 1830 ( <i>Eristalis</i> ), <i>Palpada</i> .....             | 46.104 |
| <i>decorus</i> (Loew), 1866 ( <i>Pteroptila</i> ), <i>Meromacrus</i> .....         | 46.112 |
| <i>dejongi</i> Doesburg, 1958, <i>Allograpta</i> .....                             | 46.37  |
| <i>delicatissimus</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....       | 46.16  |
| <i>delicatula</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Leucopodella</i> .....        | 46.46  |
| <i>delicatulus</i> Hull, 1937, <i>Paramicrodon</i> .....                           | 46.57  |
| <i>delila</i> (Hull), 1950 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.74  |
| <i>delimbata</i> Enderlein, 1938, <i>Allograpta</i> .....                          | 46.34  |
| <i>delineatus</i> Macquart, 1846 ( <i>Syrphus</i> ) .....                          | 46.39  |
| <i>dentipes</i> (Fabricius), 1787 ( <i>Syrphus</i> ), <i>Senogaster</i> .....      | 46.119 |
| <i>Desmetrum</i> Enderlein, 1938 .....   | 46.91  |
| <i>diabilis</i> (Hull), 1935 ( <i>Eristalis</i> ), <i>Palpada</i> .....            | 46.104 |
| <i>diana</i> Hull, 1943, <i>Salpingogaster</i> .....                               | 46.31  |
| <i>diana</i> (Hull), 1947 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.16  |
| <i>diaphanus</i> Sack, 1921, <i>Microdon</i> .....                                 | 46.64  |
| <i>dichopticum</i> Thompson, <i>Copestylum</i> .....                               | 46.74  |
| <i>dichroicum</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> ..... | 46.74  |
| <i>Dideomima</i> Vockeroth, 1969 .....   | 46.10  |
| <i>difficilis</i> (Curran), 1930 ( <i>Mesogramma</i> ) <i>Toxomerus</i> .....      | 46.49  |
| <i>diffusus</i> (Curran), 1939 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.16  |



|   |        |
|---|--------|
| <i>dimidiata</i> Giglio-Tos, 1892, <i>Mixogaster</i> .....                                      | 46.58  |
| <i>dimidiatus</i> (Fabricius), 1781 (Syrphus), <i>Ocyptamus</i> .....                           | 46.16  |
| <i>diminuta</i> (Walker), 1849 (Eristalis), <i>Palpada</i> .....                                | 46.104 |
| <i>dimitiata</i> , Fluke, 1957, <i>Mixogaster</i> .....   | 46.58  |
| <i>dimorphium</i> (Curran), 1939 (Volucella), <i>Copestylum</i> .....                           | 46.74  |
| <i>Dimorphomyia</i> Bigot, 1885 .....   | 46.96  |
| <i>dion</i> (Hull), 1951 (Crepidomyia), <i>Sterphus</i> .....                                   | 46.117 |
| <i>dionysianna</i> (d'Andretta & Carrera), 1952 ( <i>Lepidostola</i> ), <i>Lepidomyia</i> ..... | 46.88  |
| <i>Dioprosopa</i> Hull, 1949 .....  | 46.10  |
| <i>discale</i> (Curran), 1926 (Volucella), <i>Copestylum</i> .....                              | 46.75  |
| <i>discretum</i> (Frey), 1946 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....                      | 46.43  |
| <i>disjunctus</i> (Sack), 1921 (Doros), <i>Ocyptamus</i> .....                                  | 46.17  |
| <i>dispar</i> Fabricius, 1794 (Syrphus) .....   | 46.39  |
| <i>dispar</i> (Macquart), 1846 (Volucella), <i>Copestylum</i> .....                             | 46.75  |
| <i>distinctum</i> Giglio-Tos, 1892, <i>Copestylum</i> .....                                     | 46.78  |
| <i>distinguenda</i> (Wiedemann), 1830 (Eristalis), <i>Palpada</i> .....                         | 46.104 |
| <i>diversifasciatus</i> (Knab), 1914 (Syrphus), <i>Ocyptamus</i> .....                          | 46.17  |
| <i>diversum</i> (Fluke), 1951 (Volucella), <i>Copestylum</i> .....                              | 46.71  |
| <i>diversus</i> (Giglio-Tos), 1892 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                | 46.50  |
| <i>diversus</i> (Williston), 1891 (Syrphus), <i>Ocyptamus</i> .....                             | 46.17  |
| <i>dives</i> (Rondani), 1848 (Aphritis), <i>Microdon</i> .....                                  | 46.65  |
| <i>divisa</i> (Walker), 1857 (Pipiza), <i>Ocyptamus</i> .....                                   | 46.16  |
| <i>Dolichogyna</i> Macquart, 1842 .....   | 46.97  |
| <i>Doliosyrphus</i> Bigot, 1882 .....   | 46.102 |
| <i>dolorosa</i> (Hull), 1941 ( <i>Sarolepta</i> ), <i>Myolepta</i> .....                        | 46.89  |
| <i>dolorosa</i> Hull, 1946, <i>Quichuana</i> .....  | 46.98  |
| <i>dolorosus</i> (Hull), 1950 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                         | 46.17  |
| <i>dolosa</i> (Walker), 1857 (Pipiza), <i>Ocyptamus</i> .....                                   | 46.16  |
| <i>dolosa</i> (Williston), 1891 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                       | 46.30  |
| <i>Dolysyrphus</i> , Bigot, 1883 .....  | 46.102 |
| <i>doris</i> (Curran), 1930 (Eristalis), <i>Palpada</i> .....                                   | 46.105 |
| <i>dorothea</i> (Hull), 1942 (Eristalis), <i>Palpada</i> .....                                  | 46.105 |
| <i>dorsale</i> (Wiedemann), 1830 (Volucella), <i>Copestylum</i> .....                           | 46.75  |
| <i>dracaena</i> (Curran), 1947 (Volucella), <i>Copestylum</i> .....                             | 46.75  |
| <i>draco</i> Hull, 1942, <i>Meromacrus</i> .....  | 46.112 |
| <i>dracula</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                           | 46.17  |
| <i>druida</i> (Hull), 1947 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                            | 46.17  |
| <i>dryope</i> (Hull), 1958 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                            | 46.17  |
| <i>dubium</i> (Bigot), 1884 ( <i>Penium</i> ), <i>Pipiza</i> .....                              | 46.68  |
| <i>dubium</i> (Zetterstedt), 1838 ( <i>Scaeva</i> ), <i>Melanostoma</i> .....                   | 46.42  |
| <i>duida</i> (Curran), 1930 (Volucella), <i>Copestylum</i> .....                                | 46.75  |
| <i>duida</i> (Hull), 1947 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                             | 46.17  |
| <i>duplicatus</i> (Wiedemann), 1830 (Syrphus), <i>Toxomerus</i> .....                           | 46.50  |
| <i>duplofasciata</i> Enderlein, 1938, <i>Allograpta</i> .....                                   | 46.34  |
| <i>eblis</i> (Hull), 1943 ( <i>Styxia</i> ), <i>Ocyptamus</i> .....                             | 46.17  |
| <i>ectypus</i> (Say), 1829 (Syrphus), <i>Toxomerus</i> .....                                    | 46.50  |
| <i>ecuadorea</i> (Fluke), 1951 (Volucella), <i>Copestylum</i> .....                             | 46.72  |
| <i>ecuadoreus</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                    | 46.50  |
| <i>ecuadoriensis</i> (Fluke), 1945 ( <i>Melanostoma</i> ), <i>Carposcalis</i> .....             | 46.41  |
| <i>edwardsi</i> (Shannon & Aubertin), 1933 ( <i>Melanostoma</i> ), <i>Carposcalis</i> .....     | 46.41  |
| <i>edwardsi</i> (Shannon & Aubertin), 1933 ( <i>Valdivia</i> ), <i>Valdiviomyia</i> .....       | 46.118 |
| <i>Edwardsiella</i> Hull, 1941 .....  | 46.100 |
| <i>elegans</i> (Blanchard), 1852 (Eristalis), <i>Palpada</i> .....                              | 46.105 |
| <i>elegans</i> (Giglio-Tos), 1892 ( <i>Melanostoma</i> ), <i>Ocyptamus</i> .....                | 46.17  |

|   |        |
|---|--------|
| <i>elisa</i> (Hull), 1951 (Mesogramma), <i>Toxomerus</i> .....            | 46.50  |
| <i>elnora</i> (Shannon), 1927 (Calostigma), <i>Ocyptamus</i> .....        | 46.17  |
| <i>elongata</i> (Hull), 1943 (Microdon), <i>Argentinomyia</i> .....       | 46.57  |
| <i>elongatus</i> (Hull), 1941 (Mesogramma), <i>Toxomerus</i> .....        | 46.50  |
| <i>Elophilus</i> Meigen, 1803 .....                                       | 46.101 |
| <i>emeralda</i> (Hull), 1943 (Volucella), <i>Copestylum</i> .....         | 46.75  |
| <i>emeralda</i> Hull, 1943, <i>Microdon</i> .....                         | 46.64  |
| <i>emilia</i> (Curran), 1939 (Volucella), <i>Copestylum</i> .....         | 46.75  |
| <i>Eosalpingogaster</i> Hull, 1949 .....                                  | 46.32  |
| <i>Eoseristalis</i> Kanervo, 1938 .....                                   | 46.101 |
| <i>ephippium</i> (Osten Sacken), 1875 (Mixtemyia), <i>Spilomyia</i> ..... | 46.121 |
| <i>erebus</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....               | 46.17  |
| <i>Eriophora</i> Philippi, 1865 .....                                     | 46.118 |
| <i>Eriops</i> Lioy, 1864 .....  | 46.101 |
| <i>Eristalini</i> .....   | 46.96  |
| <i>Eristalis</i> Latreille, 1804 .....                                    | 46.101 |
| <i>Eristaloides</i> Rondani, 1845 .....                                   | 46.101 |
| <i>Eristalomya</i> Rondani, 1857 .....                                    | 46.101 |
| <i>ernesta</i> (Curran), 1926 (Volucella), <i>Copestylum</i> .....        | 46.75  |
| <i>ernestina</i> (Curran), 1930 (Volucella), <i>Copestylum</i> .....      | 46.75  |
| <i>erratica</i> (Curran), 1930 (Eristalis), <i>Palpada</i> .....          | 46.105 |
| <i>erraticus</i> (Williston), 1888 (Syrphus), <i>Ocyptamus</i> .....      | 46.17  |
| <i>eruptova</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....             | 46.17  |
| <i>escomeli</i> (Curran), 1929 (Volucella), <i>Copestylum</i> .....       | 46.75  |
| <i>estebana</i> (Townsend), 1895 (Volucella), <i>Copestylum</i> .....     | 46.78  |
| <i>estrelita</i> (Hull), 1948 (Baccha), <i>Leucopodella</i> .....         | 46.46  |
| <i>esuriens</i> (Fabricius), 1794 (Syrphus), <i>Copestylum</i> .....      | 46.75  |
| <i>euceratus</i> (Bigot), 1884 (Melanostoma), <i>Xanthandrus</i> .....    | 46.45  |
| <i>eugenia</i> (Williston), 1887 (Volucella), <i>Copestylum</i> .....     | 46.75  |
| <i>euglossoides</i> Gray, 1832, <i>Microdon</i> .....                     | 46.65  |
| <i>Eumerini</i> .....   | 46.92  |
| <i>Eumeros</i> Meigen, 1803 .....   | 46.113 |
| <i>Eumerus</i> Meigen, 1822 .....   | 46.92  |
| <i>Eumicrodon</i> Curran, 1925 .....                                      | 46.59  |
| <i>Eumyiolepta</i> Shannon, 1921 .....                                    | 46.89  |
| <i>eupeltata</i> (Bigot), 1884 (Syrphus), <i>Allograpta</i> .....         | 46.34  |
| <i>Eupeodes</i> Osten Sacken, 1877 .....                                  | 46.9   |
| <i>Eurhinomallota</i> Bigot, 1882 .....                                   | 46.118 |
| <i>eurydice</i> (Hull), 1951 (Mesogramma), <i>Toxomerus</i> .....         | 46.50  |
| <i>Euryptercsyrphus</i> Barretto & Lane, 1947 .....                       | 46.g7  |
| <i>eutristis</i> Curran, 1925, <i>Microdon</i> .....                      | 46.64  |
| <i>evansi</i> Thompson, 1968, <i>Myiolepta</i> .....                      | 46.90  |
| <i>excavatus</i> Rondani, 1850 (Syrphus) .....                            | 46.39  |
| <i>exeugenia</i> (Curran), 1953 (Volucella), <i>Copestylum</i> .....      | 46.75  |
| <i>exiguus</i> (Williston), 1888 (Baccha), <i>Ocyptamus</i> .....         | 46.18  |
| <i>exinanita</i> (Gmelin), 1790 (Musca), <i>Syrphus</i> .....             | 46.39  |
| <i>exotica</i> (Wiedemann), 1830 (Syrphus), <i>Allograpta</i> .....       | 46.34  |
| <i>expicta</i> (Walker), 1860 (Eristalis), <i>Palpada</i> .....           | 46.105 |
| <i>externum</i> (Curran), 1939 (Volucella), <i>Copestylum</i> .....       | 46.75  |
| <i>extrapolatus</i> (Hull), 1943 (Mesogramma), <i>Toxomerus</i> .....     | 46.50  |
| <i>facialis</i> (Thomson), 1869 (Baccha), <i>Pseudodoros</i> .....        | 46.11  |
| <i>facialis</i> (Kertész), 1903 (Ceria), <i>Sphiximorpha</i> .....        | 46.93  |
| <i>falcata</i> Fluke, 1942, <i>Allograpta</i> .....                       | 46.35  |
| <i>falcatus</i> Williston, 1887, <i>Microdon</i> .....                    | 46.64  |
| <i>familiaris</i> (Walker), 1860 (Eristalis), <i>Palpada</i> .....        | 46.105 |



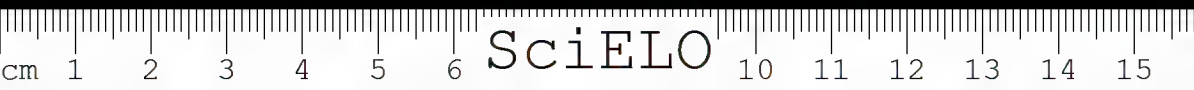


|  |        |
|--|--------|
| <i>fasciata</i> Curran, 1932, <i>Allograpta</i> .....  | 46.35  |
| <i>fasciata</i> Macquart, 1842, <i>Dolichogyna</i> .....   | 46.97  |
| <i>fasciata</i> (Sack), 1941 ( <i>Myiatropa</i> ), <i>Quichuana</i> .....                        | 46.98  |
| <i>fasciata</i> (Wiedemann), 1819 ( <i>Eristalis</i> ), <i>Palpada</i> .....                     | 46.105 |
| <i>fasciatum</i> (Macquart), 1842 ( <i>Volucella</i> ), <i>Copestylum</i> .....                  | 46.87  |
| <i>fasciatus</i> (Hull), 1948 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                      | 46.52  |
| <i>fasciatus</i> Roeder, 1885, <i>Ocyptamus</i> .....  | 46.18  |
| <i>fasciatus</i> Walker, 1849, <i>Helophilus</i> .....   | 46.96  |
| <i>fasciculata</i> (Curran), 1938 ( <i>Eristalis</i> ), <i>Palpada</i> .....                     | 46.105 |
| <i>fascifrons</i> (Macquart), 1846 ( <i>Syrphus</i> ), <i>Allograpta</i> .....                   | 46.35  |
| <i>fascithorax</i> (Macquart), 1850 ( <i>Eristalis</i> ), <i>Palpada</i> .....                   | 46.109 |
| <i>fascithorax</i> Williston, 1888, <i>Cerogaster</i> .....                                      | 46.115 |
| <i>fasciventris</i> Rondani, 1850 ( <i>Syrphus</i> ) .....                                       | 46.39  |
| <i>fastigatus</i> Fluke, 1945, <i>Rhysops</i> .....  | 46.43  |
| <i>fax</i> (Townsend), 1895 ( <i>Volucella</i> ), <i>Copestylum</i> .....                        | 46.78  |
| <i>Fazia</i> Shannon, 1927 .....   | 46.33  |
| <i>felix</i> (Shannon), 1927 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                           | 46.22  |
| <i>femina</i> (Curran), 1930 ( <i>Volucella</i> ), <i>Copestylum</i> .....                       | 46.85  |
| <i>femorata</i> (Macquart), 1842 ( <i>Eristalis</i> ), <i>Palpada</i> .....                      | 46.106 |
| <i>femoratus</i> Shannon, 1927, <i>Alipumilio</i> .....  | 46.92  |
| <i>fenestrata</i> (Macquart), 1842 ( <i>Syrphus</i> ), <i>Carposcalis</i> .....                  | 46.41  |
| <i>fenestratus</i> Bigot, 1885, <i>Ocyptamus</i> .....   | 46.19  |
| <i>fenestratus</i> Hull, 1943, <i>Microdon</i> .....   | 46.64  |
| <i>fenestratus</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                        | 46.19  |
| <i>ferroxida</i> (Hull), 1942 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                      | 46.52  |
| <i>fervidus</i> (Austen), 1893 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                         | 46.18  |
| <i>fervida</i> (Fluke), 1945 ( <i>Melanostoma</i> ), <i>Talahua</i> .....                        | 46.45  |
| <i>festivus</i> Fluke, 1945, <i>Rhysops</i> .....  | 46.43  |
| <i>fiametta</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                           | 46.18  |
| <i>fili</i> (Doesburg), 1966 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                           | 46.18  |
| <i>filiolus</i> (Shannon), 1927 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                        | 46.18  |
| <i>filissimus</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                         | 46.18  |
| <i>flammarius</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                     | 46.48  |
| <i>flammeus</i> (Hull), 1941 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                       | 46.50  |
| <i>flatus</i> (Hull), 1940 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                             | 46.18  |
| <i>flava</i> Sack, 1941 ( <i>Ceratophya</i> ) .....  | 46.122 |
| <i>flavens</i> (Austen), 1893 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                          | 46.18  |
| <i>flavibucca</i> Enderlein, 1938, <i>Allograpta</i> .....                                       | 46.35  |
| <i>flavicornis</i> (Philippi), 1865 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                    | 45.25  |
| <i>flavifacies</i> Shannon, 1927, <i>Habromyia</i> .....   | 46.100 |
| <i>flavifrons</i> Walker, 1849, <i>Xylota</i> .....  | 46.114 |
| <i>flavigaster</i> Hull, 1944 ( <i>Syrphus</i> ) .....   | 46.39  |
| <i>flavimana</i> Philippi, 1865, <i>Tropidia</i> .....   | 46.120 |
| <i>flavipenne</i> (Wiedemann), 1830 ( <i>Volucella</i> ), <i>Copestylum</i> .....                | 46.75  |
| <i>flavipennis</i> Curran, 1925, <i>Microdon</i> .....   | 46.64  |
| <i>flavipennis</i> (Macquart), 1842 ( <i>Eristalis</i> ), <i>Palpada</i> .....                   | 46.105 |
| <i>flavipennis</i> (Wiedemann), 1830 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....                  | 46.18  |
| <i>flavipes</i> (Carrera, Lopes & Lane), 1947 ( <i>Schizoceratomyia</i> ), <i>Microdon</i> ..... | 46.61  |
| <i>flavipes</i> (Enderlein), 1938 ( <i>Posthosyrphus</i> ), <i>Metasyrphus</i> .....             | 46.9   |
| <i>flavipes</i> (Philippi), 1865 ( <i>Penium</i> ), <i>Pipiza</i> .....                          | 46.67  |
| <i>flavipes</i> (Philippi), 1865 ( <i>Syrphus</i> ), <i>Pipiza</i> .....                         | 46.67  |
| <i>flavipes</i> (Shannon & Aubertin), 1933 ( <i>Scaeva</i> ), <i>Syrphus</i> .....               | 46.8   |
| <i>flavipleura</i> Hull, 1943, <i>Toxomerus</i> .....  | 46.50  |
| <i>flaviplurus</i> (Hall), 1927 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                    | 46.50  |
| <i>flavissimum</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> .....              | 46.75  |



|   |        |
|---|--------|
| <i>flavitibia</i> (Walker), 1952 (Ubristes), Microdon .....         | 46.61  |
| <i>flaviventre</i> Macquart, 1846, Copestylum .....                 | 46.75  |
| <i>flaviventris</i> Macquart, 1842, Syritta .....                   | 46.119 |
| <i>flavocaudatus</i> Bigot, 1882, Asemostryphus .....               | 46.97  |
| <i>flavocuneus</i> (Hull), 1940 (Mesogramma), Toxomerus .....       | 46.48  |
| <i>flavofascium</i> Curran, 1925, Microdon .....                    | 46.65  |
| <i>flavolinea</i> Hull, 1949, Meromacrus .....                      | 46.112 |
| <i>flavoluna</i> Hull, 1943, Microdon .....                         | 46.65  |
| <i>flavomaculata</i> Hull, 1937, Allograpta .....                   | 46.33  |
| <i>flavomaculatus</i> Shannon, 1927, Xanthandrus .....              | 46.44  |
| <i>flavomarginatus</i> Curran, 1925, Microdon .....                 | 46.65  |
| <i>flavophylla</i> (Hull), 1943 (Rhinoprosopa), Allograpta .....    | 45.35  |
| <i>flavopocula</i> (Hull), 1948 (Mesogramma), Toxomerus .....       | 46.47  |
| <i>flavoscutellata</i> (Hull), 1937 (Eristalis), Palpada .....      | 46.105 |
| <i>flavosignata</i> (Kertész), 1902 (Ceria), Sphiximorpha .....     | 46.93  |
| <i>flavus</i> Hull, 1941 (Mesogramma), Toxomerus .....              | 46.50  |
| <i>Flexineura</i> Bezzi, 1908 .....                                 | 46.31  |
| <i>floccula</i> Hull, 1944, Habromyia .....                         | 46.100 |
| <i>floralis</i> (Fabricius), 1798 (Scaeva), Toxomerus .....         | 46.50  |
| <i>florea</i> (Hull), 1925 (Eristalis), Palpada .....               | 46.105 |
| <i>florella</i> (Hull), 1944 (Volucella), Copestylum .....          | 46.76  |
| <i>florida</i> (Walker), 1852 (Eristalis), Palpada .....            | 46.106 |
| <i>Fluckea</i> Etcheverry, 1966 .....                               | 46.118 |
| <i>Flukea</i> Etcheverry, 1966 .....                                | 46.118 |
| <i>flukei</i> Curran, 1936, Allograpta .....                        | 46.35  |
| <i>flukei</i> Curran, 1936, Meromacrus .....                        | 46.112 |
| <i>flukei</i> (Curran), 1936 (Microdon), Paramicrodon .....         | 46.57  |
| <i>flukei</i> (Curran), 1936 (Volucella), Copestylum .....          | 46.76  |
| <i>flukei</i> (Curran), 1941 (Salpingogaster), Ocyptamus .....      | 46.18  |
| <i>flukei</i> Curran, 1941, Nausigaster .....                       | 46.92  |
| <i>flukei</i> (Hull), 1943 (Baccha), Ocyptamus .....                | 46.24  |
| <i>flukei</i> Hull, 1954, Mixogaster .....                          | 46.58  |
| <i>flukei</i> (Sedman), 1964 (Chrysogaster), Orthoneura .....       | 46.91  |
| <i>fluksiella</i> (Curran), 1941 (Baccha), Ocyptamus .....          | 46.18  |
| <i>fornax</i> (Townsend), 1895 (Volucella), Copestylum .....        | 46.76  |
| <i>formalis</i> (Walker), 1849 (Helophilus), Asemostryphus .....    | 46.96  |
| <i>forreri</i> (Giglio-Tos), 1893 (Sphaerophoria), Allograpta ..... | 46.35  |
| <i>fosicithorax</i> Shannon, 1927, Ceriogaster .....                | 46.115 |
| <i>foveifrons</i> (Thomson), 1869 (Eristalis), Palpada .....        | 46.107 |
| <i>fracta</i> Osten Sacken, 1877, Allograpta .....                  | 46.35  |
| <i>fractum</i> (Curran), 1926 (Volucella), Copestylum .....         | 46.76  |
| <i>fragmentarius</i> (Hull), 1947 (Baccha), Ocyptamus .....         | 46.18  |
| <i>fraternus</i> Bigot, 1883, Ocyptamus .....                       | 46.18  |
| <i>fraudator</i> Shannon, 1927, Microdon .....                      | 46.61  |
| <i>fraudulentum</i> (Williston), 1891 (Volucella), Copestylum ..... | 46.76  |
| <i>frauenfeldi</i> (Schiner), 1868 (Temnocera), Copestylum .....    | 46.76  |
| <i>frontale</i> (Sack), 1941 (Volucella), Copestylum .....          | 46.76  |
| <i>frontalis</i> Sack, 1920, Salpingogaster .....                   | 46.31  |
| <i>frontalis</i> (Curran), 1941 (Planes), Neplis .....              | 46.114 |
| <i>frontosa</i> (Bigot), 1884 (Cartosyrphus), Cheliosia .....       | 46.69  |
| <i>fucatissimus</i> (Hull), 1937 (Syrphipogon), Microdon .....      | 46.65  |
| <i>fucatus</i> Hull, 1930, Meromacrus .....                         | 46.112 |
| <i>fulgens</i> Wiedemann, 1830, Microdon .....                      | 46.65  |
| <i>fuliginosa</i> (Hull), 1935 (Eristalis), Palpada .....           | 46.105 |
| <i>fulvicauda</i> Bigot, 1884, Sphaerophoria .....                  | 46.38  |

|   |        |
|---|--------|
| <i>fulvicorne</i> (Bigot), 1883 (Volucella), Copestylum .....     | 46.76  |
| <i>fulvicorne</i> (Bigot), 1884 (Temnocera), Copestylum .....     | 46.84  |
| <i>fulvipes</i> (Bigot), 1880 (Eristalis), Palpada .....          | 46.105 |
| <i>fulvitaris</i> (Rondani), 1863 (Eristalis), Palpada .....      | 46.105 |
| <i>fulvolucens</i> (Walker), 1852 (Temnocera), Copestylum .....   | 46.76  |
| <i>fulvolucus</i> Williston, 1887, Copestylum .....               | 46.76  |
| <i>fulvonotatum</i> (Bigot), 1875 (Volucella), Copestylum .....   | 46.76  |
| <i>fumipenne</i> (Sack), 1941 (Volucella), Copestylum .....       | 46.76  |
| <i>fumipennis</i> (Stephens), 1846 (Eristalis), Palpada .....     | 46.106 |
| <i>fumosum</i> (Hull), 1943 (Volucella), Copestylum .....         | 46.76  |
| <i>funebri</i> Macquart, 1834, Ocyptamus .....                    | 46.18  |
| <i>funebri</i> Hull, 1944, Ceriogaster .....                      | 46.116 |
| <i>funeralia</i> (Hull), 1944 (Epistrophe), Allograpta .....      | 46.35  |
| <i>funerea</i> (Rondani), 1850 (Eristalis), Palpada .....         | 46.106 |
| <i>funereus</i> Hull, 1949, Rhysops .....                         | 46.43  |
| <i>funereus</i> Shannon & Aubertin, 1933, Meromacrus .....        | 46.112 |
| <i>funescens</i> (Williston), 1886 (Eristalis), Palpada .....     | 46.106 |
| <i>funestus</i> (Doesburg), 1966 (Mesograpta), Toxomerus .....    | 46.50  |
| <i>furcata</i> (Wiedemann), 1819 (Eristalis), Palpada .....       | 46.106 |
| <i>furens</i> (Giglio-Tos), 1892 (Volucella), Copestylum .....    | 46.76  |
| <i>fuscipennis</i> Macquart, 1846 (Syrphus) .....                 | 46.39  |
| <i>fuscicosta</i> Lynch Arribálzaga, 1891, Ocyptamus .....        | 46.18  |
| <i>fuscipenne</i> (Macquart), 1842 (Volucella), Copestylum .....  | 46.76  |
| <i>fuscipennis</i> (Macquart), 1850 (Volucella), Copestylum ..... | 46.72  |
| <i>fuscipennis</i> (Say), 1823 (Baccha), Ocyptamus .....          | 46.19  |
| <i>fuscipennis</i> (Macquart), 1846 (Eristalis), Palpada .....    | 46.106 |
| <i>fuscipennis</i> , Williston, 1888, Copestylum .....            | 46.74  |
| <i>fuscisquama</i> Curran, 1927, Allograpta .....                 | 46.35  |
| <i>fuscithorax</i> Shannon, 1926, Ceriogaster .....               | 46.115 |
| <i>fuscus</i> (Hull), 1949 (Baccha), Ocyptamus .....              | 46.31  |
| <i>gagathina</i> Bigot, 1887 (Priomerus) .....                    | 46.122 |
| <i>gaigei</i> Steyskal, 1953, Microdon .....                      | 46.65  |
| <i>gastrostactus</i> (Wiedemann), 1830 (Syrphus), Ocyptamus ..... | 46.19  |
| <i>gayi</i> Macquart, 1842, Syrphus .....                         | 46.8   |
| <i>geijskesi</i> (Doesburg), 1966 (Baccha), Ocyptamus .....       | 46.19  |
| <i>geijskesi</i> Doesburg, 1966, Microdon .....                   | 46.65  |
| <i>geminata</i> Fluke, 1942, Allograpta .....                     | 46.34  |
| <i>geminata</i> Townsend, 1897, Nausigaster .....                 | 46.92  |
| <i>gemini</i> (Hull), 1941 (Mesogramma), Toxomerus .....          | 46.50  |
| <i>geniculata</i> (Fabricius), 1805 (Eristalis), Palpada .....    | 46.106 |
| <i>geniculata</i> (Bigot), 1883 (Doliosyrphus), Eristalis .....   | 46.106 |
| <i>geniculosa</i> Thompson, Palpada .....                         | 46.106 |
| <i>genuinus</i> (Williston), 1888 (Xylota), Sterphus .....        | 46.117 |
| <i>gertschi</i> (Curran), 1939 (Volucella), Copestylum .....      | 46.76  |
| <i>gewgaw</i> (Hull), 1941 (Chrysogaster), Orthonevra .....       | 46.91  |
| <i>ghilianii</i> Rondani, 1848, Meromacrus .....                  | 46.112 |
| <i>gibberum</i> (Schiner), 1868 (Temnocera), Copestylum .....     | 46.76  |
| <i>giganteus</i> (Schiner), 1868 (Baccha), Ocyptamus .....        | 46.19  |
| <i>gilvus</i> (Austen), 1893 (Baccha), Ocyptamus .....            | 46.19  |
| <i>glabella</i> (Hull), 1942 (Eristalis), Palpada .....           | 46.106 |
| <i>Glaurotricha</i> Thomson, 1869 .....                           | 46.70  |
| <i>globiceps</i> (Hull), 1937 (Pipunculosyrphus), Ocyptamus ..... | 46.19  |
| <i>goettei</i> Shannon, 1927, Microdon .....                      | 46.61  |
| <i>golbachi</i> (Fluke), 1950 (Metasyrphus), Notosyrphus .....    | 46.10  |
| <i>golbachi</i> (Fluke), 1950 (Stenosyrphus), Ocyptamus .....     | 46.19  |



|   |        |
|---|--------|
| <i>gorgon</i> (Hull), 1950 ( <i>Volucella</i> ), <i>Copestylum</i> .....              | 46.76  |
| <i>gowdeyi</i> (Curran), 1926 ( <i>Baccha</i> ), <i>Leucopodella</i> .....            | 46.46  |
| <i>gracilis</i> Bigot, 1883, <i>Microdon</i> .....                                    | 46.65  |
| <i>gracilis</i> Sack, 1920, <i>Salpingogaster</i> .....                               | 46.31  |
| <i>gracilis</i> (Williston), 1891 ( <i>Baccha</i> ), <i>Leucopodella</i> .....        | 46.46  |
| <i>grandifemoralis</i> (Curran), 1934 ( <i>Planes</i> ), <i>Neplas</i> .....          | 46.114 |
| <i>grandis</i> Lynch Arribálzaga, 1892, <i>Argentinomyia</i> .....                    | 46.57  |
| <i>granditibialis</i> Fluke, 1937, <i>Trichopsomyia</i> .....                         | 46.68  |
| <i>granulatum</i> (Hull), 1944 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.76  |
| <i>granulatus</i> Curran, 1940, <i>Microdon</i> .....                                 | 46.65  |
| <i>gratiosa</i> Wulp, 1888, <i>Spilomyia</i> .....                                    | 46.121 |
| <i>gratus</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.19  |
| <i>greenei</i> Hull, 1941, <i>Myolepta</i> .....                                      | 46.89  |
| <i>grisea</i> (Hull), 1941 ( <i>Planes</i> ), <i>Neplas</i> .....                     | 46.115 |
| <i>griseus</i> Giglio-Tos, 1892, <i>Asemosyrphus</i> .....                            | 46.97  |
| <i>guadelupensis</i> Macquart, 1842, <i>Eristalis</i> .....                           | 46.102 |
| <i>guentherii</i> (Lynch Arribálzaga), 1891 ( <i>Holmbergia</i> ), <i>Microdon</i> .. | 46.60  |
| <i>guianicum</i> (Hine), 1914 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.76  |
| <i>gulanicus</i> Curran, 1925, <i>Microdon</i> .....                                  | 46.62  |
| <i>gundlachi</i> (Loew), 1866 ( <i>Eristalis</i> ), <i>Palpada</i> .....              | 46.106 |
| <i>guttifer</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....            | 46.50  |
| <i>guttulata</i> Hull, 1942, <i>Sphaerophoria</i> .....                               | 46.38  |
| <i>guyanensis</i> (Goot), 1964 ( <i>Eristalis</i> ), <i>Palpada</i> .....             | 46.106 |
|   |        |
| <i>haagii</i> (Jaenicke), 1867 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.76  |
| <i>Habromyia</i> Williston, 1888 .....  | 46.100 |
| <i>haemorrhoidalis</i> (Philippi), 1865 ( <i>Priomerus</i> ), <i>Myolepta</i> .....   | 46.90  |
| <i>hagii</i> Williston, 1887, <i>Copestylum</i> .....                                 | 46.77  |
| <i>hahni</i> (Bigot), 1888 ( <i>Helophilus</i> ), <i>Dolichogyna</i> .....            | 46.97  |
| <i>halcyon</i> Hull, 1940, <i>Salpingogaster</i> .....                                | 46.31  |
| <i>halcyone</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.19  |
| <i>Halictomyia</i> Shannon, 1927 .....  | 46.68  |
| <i>hambletoni</i> (Fluke), 1951 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.77  |
| <i>harlequina</i> Hull, 1949, <i>Allograpta</i> .....                                 | 46.35  |
| <i>harlequinus</i> (Hull), 1948 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.19  |
| <i>harlequinus</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....         | 46.50  |
| <i>harrisi</i> Curran, 1925, <i>Rhingia</i> .....                                     | 46.69  |
| <i>hastata</i> Fluke, 1942, <i>Allograpta</i> .....                                   | 46.35  |
| <i>Haurottricha</i> Thomson, 1869 .....   | 46.70  |
| <i>Heliophilus</i> Meigen, 1803 .....   | 46.113 |
| <i>Helophilus</i> Meigen, 1822 .....  | 46.96  |
| <i>Hemixylota</i> Shannon & Aubertin, 1933 .....                                      | 46.121 |
| <i>heraldicus</i> (Bigot), 1884 ( <i>Mesograpta?</i> ), <i>Toxomerus</i> .....        | 46.50  |
| <i>Hermesomyia</i> Vockeroth, 1969 .....  | 46.11  |
| <i>hermetia</i> Curran, 1936, <i>Microdon</i> .....                                   | 46.65  |
| <i>hermetoides</i> Curran, 1940, <i>Microdon</i> .....                                | 46.65  |
| <i>hermosa</i> Hull, 1941 ( <i>Fazia</i> ), <i>Allograpta</i> .....                   | 46.35  |
| <i>hermosa</i> Hull, 1951, <i>Quichuana</i> .....                                     | 46.98  |
| <i>hians</i> (Enderlein), 1938 ( <i>Chasmia</i> ), <i>Allograpta</i> .....            | 46.35  |
| <i>hiantha</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                 | 46.19  |
| <i>hieroglyphicus</i> (Schiner), 1868 ( <i>Mesogramma</i> ), <i>Toxomerus</i> ....    | 46.51  |
| <i>hinei</i> Hull, 1942, <i>Meromacrus</i> .....                                      | 46.112 |
| <i>hinei</i> Fluke, 1951, <i>Dolichogyna</i> .....                                    | 46.97  |
| <i>hinei</i> Thompson, <i>Cerogaster</i> .....  | 46.116 |
| <i>hippolyte</i> (Hull), 1957 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.19  |
| <i>hirsuta</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.73  |



|   |        |
|---|--------|
| <i>hirsutops</i> Hull, 1949, Pipiza .....                                   | 46.68  |
| <i>hirtipes</i> (Bigot), 1883 (Doliosyrphus), Palpada .....                 | 46.110 |
| <i>hirtipes</i> (Hull), 1943 (Baccha), Ocyptamus .....                      | 46.23  |
| <i>hirtipes</i> (Macquart), 1850 (Volucella), Copestylum .....              | 46.77  |
| <i>hirtus</i> (Shannon), 1927 (Baccha), Ocyptamus .....                     | 46.20  |
| <i>hirundella</i> (Hull), 1944 (Baccha), Ocyptamus .....                    | 46.20  |
| <i>hispida</i> (Giglio-Tos), 1892 (Volucella), Copestylum .....             | 46.80  |
| <i>histrion</i> Wiedemann, 1830, Microdon .....                             | 46.65  |
| <i>Holmbergia</i> Lynch Arribalzaga, 1891 .....                             | 46.60  |
| <i>honduranius</i> Hull, 1940, Microdon .....                               | 46.65  |
| <i>hortensis</i> (Philippi), 1865 (Syrphus), Allograpta .....               | 46.35  |
| <i>horticole</i> (Hull), 1943 (Volucella), Copestylum .....                 | 46.77  |
| <i>hortorum</i> (Fabricius), 1775 (Syrphus), Palpada .....                  | 46.106 |
| <i>horvathi</i> (Szilády), 1926 (Graptomyza), Copestylum .....              | 46.77  |
| <i>hoya</i> (Curran), 1947 (Volucella), Copestylum .....                    | 46.85  |
| <i>hulli</i> Sedman, Toxomerus .....  | 46.51  |
| <i>hyacinthia</i> (Hull), 1947 (Baccha), Ocyptamus .....                    | 46.20  |
| <i>hyalinipenne</i> (Hull), 1944 (Volucella), Copestylum .....              | 46.77  |
| <i>hyalipennis</i> (Curran), 1930 (Callostigma), Ocyptamus .....            | 46.20  |
| <i>hyalopterum</i> (Giglio-Tos), 1892 (Volucella), Copestylum .....         | 46.77  |
| <i>Hybobathus</i> Enderlein, 1938 .....                                     | 46.47  |
| <i>hydrufenestra</i> (Hull), 1944 (Volucella), Copestylum .....             | 46.77  |
| <i>Hypobathus</i> Fluke, 1956 .....   | 46.47  |
| <i>Hypselosyrphus</i> Hull, 1937 .....                                      | 46.61  |
| <i>hystrix</i> (Giglio-Tos), 1892 (Volucella), Copestylum .....             | 46.77  |
| <i>ida</i> (Curran), 1941 (Baccha), Ocyptamus .....                         | 46.20  |
| <i>idalius</i> (Hull), 1951 (Mesogramma), Toxomerus .....                   | 46.51  |
| <i>idanus</i> (Curran), 1941 (Baccha), Ocyptamus .....                      | 46.20  |
| <i>idella</i> (Hull), 1949 (Baccha), Ocyptamus .....                        | 46.20  |
| <i>ignobilis</i> (Rondani), 1948 (Aphritis), Microdon .....                 | 46.65  |
| <i>iheringi</i> Bezzi, 1910, Microdon .....                                 | 46.65  |
| <i>Imatisma</i> Macquart, 1842 .....  | 46.99  |
| <i>imitans</i> (Curran), 1926 (Volucella), Copestylum .....                 | 46.77  |
| <i>imitator</i> (Curran), 1925 (Epistrophe), Allograpta .....               | 46.36  |
| <i>immaculatus</i> (Macquart), 1842 (Syrphus), Ocyptamus .....              | 46.20  |
| <i>imperialis</i> (Curran), 1926 (Mesogramma), Toxomerus .....              | 46.51  |
| <i>impositus</i> (Walker), 1860 (Eristalis), Helophilus .....               | 46.96  |
| <i>impressum</i> (Hull), 1949 (Volucella), Copestylum .....                 | 46.77  |
| <i>impura</i> Curran, 1941, Salpingogaster .....                            | 46.32  |
| <i>impurus</i> Giglio-Tos, 1892, Aemosyrphus .....                          | 46.96  |
| <i>inaequalis</i> Loew, 1866, Microdon .....                                | 46.65  |
| <i>inanis</i> Fabricius, 1775 (Syrphus) .....                               | 46.39  |
| <i>inarmatus</i> Curran, 1925, Microdon .....                               | 46.62  |
| <i>inca</i> (Bigot), 1880 (Eristalis), Palpada .....                        | 46.106 |
| <i>inca</i> (Curran), 1939 (Baccha), Ocyptamus .....                        | 46.20  |
| <i>inca</i> Shannon, 1925, Quichuana .....                                  | 46.98  |
| <i>incaicus</i> Sack, 1941, Toxomerus .....                                 | 46.51  |
| <i>incerta</i> (Bigot), 1880 (Eristalomyia), Palpada .....                  | 46.106 |
| <i>incerta</i> (Shannon & Aubertin), 1933 (Chilosia), Chromocheilosia ..... | 46.90  |
| <i>incerta</i> Shannon & Aubertin, 1933, Hemixylota .....                   | 46.121 |
| <i>incisus</i> (Hull), 1949 (Baccha), Ocyptamus .....                       | 46.15  |
| <i>inclusa</i> (Hull), 1943 (Baccha), Ocyptamus .....                       | 46.23  |
| <i>incommodum</i> (Knab), 1916 (Volucella), Copestylum .....                | 46.77  |
| <i>incompta</i> (Austen), 1893 (Baccha), Leucopodella .....                 | 46.46  |
| <i>inconsistens</i> (Curran), 1939 (Volucella), Copestylum .....            | 46.77  |



|  |        |
|--|--------|
| <i>incubus</i> (Hull), 1943 ( <i>Eristalis</i> ), <i>Palpada</i> .....             | 46.106 |
| <i>inermis</i> Williston, 1888, <i>Microdon</i> .....                              | 46.67  |
| <i>infanta</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.20  |
| <i>inflatifrons</i> (Fluke), 1945 ( <i>Melanostoma</i> ), <i>Carposcalis</i> ..... | 46.41  |
| <i>infuscatus</i> Bigot, 1883, <i>Ocyptamus</i> .....                              | 46.20  |
| <i>ingenia</i> (Curran), 1930 ( <i>Volucella</i> ), <i>Copestylum</i> .....        | 46.75  |
| <i>inornatus</i> (Walker), 1837 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....          | 46.20  |
| <i>inops</i> (Townsend), 1895 ( <i>Volucella</i> ), <i>Copestylum</i> .....        | 46.78  |
| <i>inquisitor</i> (Hull), 1943 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.77  |
| <i>insignis</i> (Schiner), 1868 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....      | 46.51  |
| <i>instabilis</i> Wiedemann, 1830, <i>Microdon</i> .....                           | 46.65  |
| <i>insularis</i> (Bigot), 1883 ( <i>Doros</i> ), <i>Ocyptamus</i> .....            | 46.20  |
| <i>insularis</i> Lynch Arribálzaga, 1892, <i>Tropidia</i> .....                    | 46.120 |
| <i>integre</i> Williston, 1887, <i>Chrysotoxum</i> .....                           | 46.40  |
| <i>integrum</i> (Walker), 1857 ( <i>Temnocera</i> ), <i>Copestylum</i> .....       | 46.77  |
| <i>intermedia</i> Hull, 1949, <i>Mallota</i> .....                                 | 46.100 |
| <i>intermedius</i> (Hull), 1949 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....      | 46.51  |
| <i>interrupta</i> Enderlein, 1938, <i>Allograpta</i> .....                         | 46.35  |
| <i>interrupta</i> (Fabricius), 1805 ( <i>Eristalis</i> ), <i>Palpada</i> .....     | 46.106 |
| <i>interruptus</i> (Enderlein), 1938 ( <i>Mesograpta</i> ), <i>Toxomerus</i> ..... | 46.50  |
| <i>interruptus</i> (Philippi), 1865 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....     | 46.53  |
| <i>intona</i> (Curran), 1928 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.77  |
| <i>inversa</i> Shannon, 1927, <i>Mallota</i> .....                                 | 46.100 |
| <i>inversa</i> (Wiedemann), 1830 ( <i>Eristalis</i> ), <i>Palpada</i> .....        | 46.106 |
| <i>io</i> (Hull), 1944 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                   | 46.20  |
| <i>iolanthe</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.22  |
| <i>iona</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.20  |
| <i>iridipennis</i> (Walker), 1837 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....       | 46.18  |
| <i>iris</i> Austen, 1893, <i>Ocyptamus</i> .....                                   | 46.20  |
| <i>isabellina</i> (Williston), 1887 ( <i>Volucella</i> ), <i>Copestylum</i> .....  | 46.77  |
| <i>isthmus</i> Thompson, <i>Ocyptamus</i> .....                                    | 46.20  |
| <i>jactator</i> (Loew), 1861 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....            | 46.20  |
| <i>jaguarinus</i> (Bigot), 1884 ( <i>Mesograpta</i> ?), <i>Toxomerus</i> .....     | 46.51  |
| <i>jamaicensis</i> (Gmelin), 1790 ( <i>Musca</i> ) .....                           | 46.39  |
| <i>jenningsi</i> (Shannon), 1925 ( <i>Lepidostola</i> ), <i>Lepidomyia</i> .....   | 46.88  |
| <i>johnsoni</i> (Curran), 1934 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.20  |
| <i>johnsoni</i> (Curran), 1925 ( <i>Phalacromyia</i> ), <i>Copestylum</i> .....    | 46.77  |
| <i>Johnsoniodon</i> Curran, 1947 .....   | 46.61  |
| <i>kahli</i> (Hull), 1938 ( <i>Volucella</i> ), <i>Copestylum</i> .....            | 46.77  |
| <i>kahli</i> Snow, 1895, <i>Spilomyia</i> .....                                    | 46.121 |
| <i>knabi</i> Shannon, 1927, <i>Quichuana</i> .....                                 | 46.99  |
| <i>kerteszi</i> Shannon, 1925 ( <i>Cerioides</i> ), <i>Sphiximorpha</i> .....      | 46.93  |
| <i>labyrinthops</i> (Hull), 1944 ( <i>Chrysogaster</i> ), <i>Orthonevra</i> .....  | 46.91  |
| <i>lachrymellea</i> Hull, 1942, <i>Rhysoys</i> .....                               | 46.43  |
| <i>lachrymosus</i> , auctorum, <i>Toxomerus</i> .....                              | 46.51  |
| <i>laciniosus</i> (Loew), 1866 ( <i>Mesograpta</i> ), <i>Toxomerus</i> .....       | 46.51  |
| <i>laconicus</i> (Walker), 1852 ( <i>Milesia</i> ), <i>Meromacrus</i> .....        | 46.112 |
| <i>lacrimosus</i> , Kertész, 1910, <i>Toxomerus</i> .....                          | 46.51  |
| <i>lacrymosus</i> (Bigot), 1884 ( <i>Mesograpta</i> ?), <i>Toxomerus</i> .....     | 46.51  |
| <i>lacta</i> (Bigot), 1883 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.78  |
| <i>lacteipennis</i> Shannon, 1927, <i>Microdon</i> .....                           | 46.62  |
| <i>lacticoeruleum</i> (Hull), 1944 ( <i>Volucella</i> ), <i>Copestylum</i> .....   | 46.77  |
| <i>lactiva</i> (Hull), 1946 ( <i>Lepidostola</i> ), <i>Lepidomyia</i> .....        | 46.89  |

|  |        |
|--|--------|
| <i>laenas</i> Hull, 1943, <i>Toxomerus</i> .....                                   | 46.51  |
| <i>laenus</i> (Walker), 1852 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....            | 46.51  |
| <i>laetus</i> Loew, 1864, <i>Microdon</i> .....                                    | 46.65  |
| <i>lanei</i> Carrera & Lenko, 1958, <i>Mixogaster</i> .....                        | 46.58  |
| <i>lanei</i> (Curran), 1936 ( <i>Baccha</i> ), <i>Leucopodella</i> .....           | 46.46  |
| <i>lanei</i> Curran, 1936, <i>Microdon</i> .....                                   | 46.62  |
| <i>lanei</i> (Curran), 1936 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.77  |
| <i>lanei</i> (Fluke), 1936 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....            | 46.43  |
| <i>lanei</i> (Fluke), 1950 ( <i>Stenosyrphus</i> ), <i>Ocyptamus</i> .....         | 46.21  |
| <i>lanei</i> (Hull), 1942 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....            | 46.51  |
| <i>langi</i> Curran, 1925, <i>Microdon</i> .....                                   | 46.65  |
| <i>langi</i> (Curran), 1934 ( <i>Eristalis</i> ), <i>Palpada</i> .....             | 46.106 |
| <i>langi</i> Curran, 1934, <i>Habromyia</i> .....                                  | 46.100 |
| <i>lasiotibialis</i> Fluke, 1937, <i>Trichopsomyia</i> .....                       | 46.68  |
| <i>latafascies</i> (Macquart), 1850 ( <i>Syrphus</i> ), <i>Scaeva</i> .....        | 46.9   |
| <i>lateralis</i> (Walker), 1837 ( <i>Eristalis</i> ), <i>Palpada</i> .....         | 46.104 |
| <i>latevittatum</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....   | 46.77  |
| <i>laticauda</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....          | 46.21  |
| <i>latifacies</i> , Fluke, 1956, <i>Scaeva</i> .....                               | 46.9   |
| <i>latifacies</i> (Shannon), 1927 ( <i>Claraplumula</i> ), <i>Allograpta</i> ..... | 46.36  |
| <i>latifrons</i> Loew, 1863, <i>Helophilus</i> .....                               | 46.96  |
| <i>latiforms</i> Loew, 1866, <i>Eristalis</i> .....                                | 46.102 |
| <i>latitarsata</i> (Macquart), 1842 ( <i>Xylota</i> ), <i>Ceriogaster</i> .....    | 46.116 |
| <i>latiusculus</i> Loew, 1866, <i>Ocyptamus</i> .....                              | 46.21  |
| <i>lativebris</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....         | 46.21  |
| <i>latum</i> (Wiedemann), 1830 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.78  |
| <i>laudabilis</i> (Williston), 1891 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....      | 46.21  |
| <i>lautus</i> Giglio-Tos, 1892 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....          | 46.21  |
| <i>laxus</i> (Osten Sacken), 1875 ( <i>Didea</i> ), <i>Megasyrphus</i> .....       | 46.10  |
| <i>lazuli</i> (Hull), 1944 ( <i>Chrysidimyia</i> ), <i>Microdon</i> .....          | 46.65  |
| <i>lede</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....             | 46.51  |
| <i>lepidus</i> (Macquart), 1842 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....          | 46.21  |
| <i>Lepidomyia</i> Loew, 1864 .....   | 46.88  |
| <i>Lepidopsis</i> Curran, 1925 .....   | 46.70  |
| <i>Lepidosia</i> Thompson, 1965 .....  | 46.70  |
| <i>Lepidostola</i> Mik, 1886 .....   | 46.88  |
| <i>Lepromyia</i> Williston, 1887 .....   | 46.88  |
| <i>leucopodus</i> (Hull), 1948 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.21  |
| <i>Leucopodella</i> Hull, 1949 .....   | 46.46  |
| <i>levissimus</i> (Austen), 1893 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....         | 46.21  |
| <i>limae</i> (Brèthes), 1920 (1937) ( <i>Mesograpta</i> ), <i>Toxomerus</i> .....  | 46.51  |
| <i>limbata</i> (Fabricius), 1805 ( <i>Scaeva</i> ), <i>Allograpta</i> .....        | 46.36  |
| <i>limbatinebris</i> (Macquart), 1850 ( <i>Eristalis</i> ), <i>Palpada</i> .....   | 46.109 |
| <i>limbatus</i> Wiedemann, 1830, <i>Microdon</i> .....                             | 46.65  |
| <i>limpipenne</i> Williston, 1887, <i>Copestylum</i> .....                         | 46.78  |
| <i>limbipennis</i> Williston, 1891, <i>Salpingogaster</i> .....                    | 46.32  |
| <i>limbipennis</i> , Sack, 1920, <i>Salpingogaster</i> .....                       | 46.32  |
| <i>limbus</i> (Enderlein), 1938 ( <i>Antips</i> ), <i>Toxomerus</i> .....          | 46.51  |
| <i>limpidapex</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....         | 46.21  |
| <i>linearis</i> (Wulp), 1883 ( <i>Mesograpta</i> ), <i>Toxomerus</i> .....         | 46.51  |
| <i>lineascripta</i> Hull, 1937, <i>Meromacrus</i> .....                            | 46.112 |
| <i>lineata</i> (Fabricius), 1805 ( <i>Milesia</i> ), <i>Senogaster</i> .....       | 46.119 |
| <i>lineata</i> Sack, 1920, <i>Salpingogaster</i> .....                             | 46.32  |
| <i>lineatus</i> (Fluke), 1937 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....         | 46.43  |
| <i>lineatus</i> (Macquart), 1846 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....         | 46.21  |

|   |        |
|---|--------|
| <i>lipoflava</i> Fluke, 1937, <i>Habromyia</i> .....                              | 46.100 |
| <i>liposeta</i> Fluke, 1937, <i>Salpingogaster</i> .....                          | 46.33  |
| <i>liriope</i> (Hull), 1949 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.78  |
| <i>litoralis</i> (Papavero), 1964 ( <i>Ubristes</i> ), <i>Microdon</i> .....      | 46.62  |
| <i>lividus</i> (Schiner), 1868 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....          | 46.21  |
| <i>lizeri</i> (Brèthes), 1914 ( <i>Helophilus</i> ), <i>Habromyia</i> .....       | 46.101 |
| <i>loewi</i> (Goot), 1964 ( <i>Syrphus</i> ), <i>Xanthandrus</i> .....            | 46.44  |
| <i>loewi</i> (Sedman), 1965 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.27  |
| <i>loewi</i> (Williston), 1892 ( <i>Pteroptila</i> ), <i>Meromacrus</i> .....     | 46.113 |
| <i>longicornis</i> Loew, 1872, <i>Spilomyia</i> .....                             | 46.121 |
| <i>longicornis</i> (Walker), 1837 ( <i>Pipiza</i> ), <i>Rhysops</i> .....         | 46.43  |
| <i>longicornis</i> (Wiedemann), 1824 ( <i>Ceratophya</i> ), <i>Microdon</i> ..... | 46.59  |
| <i>longicornis</i> (Williston), 1888 ( <i>Melanostoma</i> ), <i>Rhysops</i> ..... | 46.43  |
| <i>longicornis</i> Williston, 1888, <i>Trichopsomyia</i> .....                    | 46.68  |
| <i>longipenis</i> (Enderlein), 1938 ( <i>Posthonia</i> ), <i>Eupeodes</i> .....   | 46.9   |
| <i>longirostris</i> Fluke, 1943, <i>Rhingia</i> .....                             | 46.69  |
| <i>lopesae</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.18  |
| <i>lopesi</i> Carrera & Lenko, 1958, <i>Mixogaster</i> .....                      | 46.58  |
| <i>lopesi</i> Fluke, 1945, <i>Rhysops</i> .....                                   | 46.43  |
| <i>lotus</i> (Williston), 1887 ( <i>Syrphus</i> ), <i>Dasysyrphus</i> .....       | 46.10  |
| <i>lucana</i> (Townsend), 1895 ( <i>Volucella</i> ), <i>Copestylum</i> .....      | 46.78  |
| <i>lucasana</i> (Townsend), 1895 ( <i>Volucella</i> ), <i>Copestylum</i> .....    | 46.78  |
| <i>lucifera</i> (Hull), 1943 ( <i>Rhinoprosopa</i> ), <i>Allograpta</i> .....     | 46.36  |
| <i>lucilia</i> (Hull), 1950 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.78  |
| <i>lucetia</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.21  |
| <i>luctuosa</i> (Bigot), 1857 ( <i>Helophilus</i> ), <i>Myolepta</i> .....        | 46.90  |
| <i>luctuosa</i> (Philippi), 1865 ( <i>Priomerus</i> ), <i>Myolepta</i> .....      | 46.90  |
| <i>luctuosus</i> (Bigot), 1883 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....          | 46.21  |
| <i>luculentus</i> (Fluke), 1945 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....      | 46.43  |
| <i>lugens</i> (Wiedemann), 1830 ( <i>Volucella</i> ), <i>Copestylum</i> .....     | 46.78  |
| <i>lugubri</i> (Jaennicke), 1867 ( <i>Chrysogaster</i> ), <i>Orthonevra</i> ..... | 46.91  |
| <i>lugubris</i> (Philippi), 1865 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....        | 46.21  |
| <i>lugubris</i> (Williston), 1891 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....       | 46.22  |
| <i>lumina</i> (Hull), 1937 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.78  |
| <i>luna</i> (Fluke), 1942 ( <i>Epistrophe</i> ), <i>Allograpta</i> .....          | 46.36  |
| <i>lundbladi</i> Enderlein, 1940, <i>Carposcalis</i> .....                        | 46.41  |
| <i>lunuliferum</i> (Hull), 1937 ( <i>Volucella</i> ), <i>Copestylum</i> .....     | 46.78  |
| <i>lunus</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....           | 46.51  |
| <i>luridescens</i> (Walker), 1857 ( <i>Ceratophya</i> ), <i>Microdon</i> .....    | 46.65  |
| <i>lutescens</i> (Walker), 1857 ( <i>Rhoga</i> ), <i>Microdon</i> .....           | 46.60  |
| <i>lutzi</i> (Curran), 1930 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....         | 46.51  |
| <i>Lycastriirhyncha</i> Bigot, 1859 .....   | 46.102 |
| <i>Lycastriirhyncha</i> , auctorum .....  | 46.102 |
| <i>Lycopale</i> Hull, 1944 .....  | 46.100 |
| <i>lyncharribalzagai</i> Shannon, 1927, <i>Polybiomyia</i> .....                  | 46.95  |
| <i>lynchii</i> (Williston), 1888 ( <i>Ceria</i> ), <i>Monoceromyia</i> .....      | 46.94  |
| <i>lyratus</i> (Hull), 1940 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....         | 46.52  |
| <i>lyrica</i> (Curran), 1941 ( <i>Planes</i> ), <i>Neplas</i> .....               | 46.115 |
| <i>macer</i> (Curran), 1930 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....             | 46.22  |
| <i>mackiei</i> Curran, 1940, <i>Microdon</i> .....                                | 46.62  |
| <i>macquarti</i> (Blanchard), 1852 ( <i>Syrphus</i> ), <i>Allograpta</i> .....    | 46.36  |
| <i>macquarti</i> (Curran), 1926 ( <i>Volucella</i> ), <i>Copestylum</i> .....     | 46.78  |
| <i>macquarti</i> (Goot), 1964 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....       | 46.52  |
| <i>macquarti</i> Shannon, 1925, <i>Polybiomyia</i> .....                          | 46.95  |

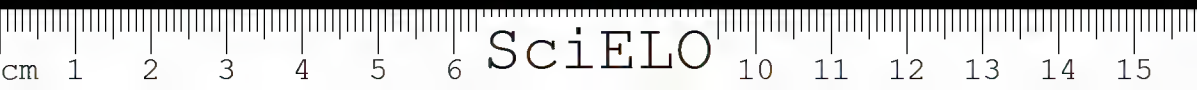


|   |        |
|---|--------|
| macquartii Lynch Arribálzaga, 1891, Microdon .....            | 46.65  |
| macra (Enderlein), 1938 (Desmetrum), Chamaesphegina .....     | 46.91  |
| macrocephalum (Giglio-Tos), 1892 (Camerania), Copestylum ...  | 46.78  |
| Macrometopia Phillippi, 1865 .....                            | 46.116 |
| macroptera (Curran), 1941 (Ceratophya), Argentinomyia .....   | 46.57  |
| macropyga (Curran), 1941 (Baccha), Ocyptamus .....            | 46.22  |
| macrorhinum (Bigot), 1875 (Volucella), Copestylum .....       | 46.78  |
| macula (Sack), 1941 (Eristalis), Palpada .....                | 46.106 |
| macula Schiner, 1868, Salpingogaster .....                    | 46.33  |
| macula (Wiedemann), 1830 (Volucella), Copestylum .....        | 46.78  |
| maculatus (Bigot), 1884 (Mesograpta?), Toxomerus .....        | 46.52  |
| maculatus (Macquart), 1850 (Milesia), Meromacrus .....        | 46.111 |
| maculatus Shannon, 1927, Microdon .....                       | 46.60  |
| maculatus (Walker), 1852 (Paragus), Rhysops .....             | 46.43  |
| maculipennis Hull, 1944, Salpingogaster .....                 | 46.31  |
| maculipennis Townsend, 1897, Eristalis .....                  | 46.102 |
| maculipes (Bigot), 1884 (Mesograpta?), Toxomerus .....        | 46.49  |
| maculoides (Curran), 1939 (Volucella), Copestylum .....       | 46.78  |
| magnifica (Bigot), 1880 (Plagiocera), Habromyia .....         | 46.101 |
| major Curran, 1930, Ornidia .....                             | 46.69  |
| malleri (Curran), 1947 (Johnsoniodon), Microdon .....         | 46.61  |
| Mallota Meigen, 1822 .....                                    | 46.99  |
| manni Shannon, 1923, Microdon .....                           | 46.66  |
| mara (Curran), 1941 (Baccha), Ocyptamus .....                 | 46.22  |
| marcelli Curran, 1936, Microdon .....                         | 46.66  |
| marcelli (Curran), 1939 (Volucella), Copestylum .....         | 46.78  |
| margarita Williston, 1892, Mallota .....                      | 46.100 |
| marginatum (Say), 1830 (Volucella), Copestylum .....          | 46.78  |
| marginatus (Say), 1823 (Scaeva), Toxomerus .....              | 46.52  |
| marmorata (Bigot), 1883 (Baccha), Leucopodella .....          | 46.47  |
| Masarygus Brèthes, 1908 .....                                 | 46.60  |
| matilda Hull, 1949, Meromacrus .....                          | 46.112 |
| maximiliani (Jaennicke), 1867 (Volucella), Copestylum .....   | 46.79  |
| meadei (Williston), 1892 (Ceria), Sphiximorpha .....          | 46.93  |
| megacephalum (Loew), 1863 (Tomnocera), Copestylum .....       | 46.78  |
| megacephalus Shannon, 1923, Microdon .....                    | 46.62  |
| Megametopon Giglio-Tos, 1891 .....                            | 46.70  |
| Megasyrphus Dusek & Láska, 1967 .....                         | 46.10  |
| meigenii (Wiedemann), 1830 (Eristalis), Palpada .....         | 46.107 |
| melanaspis (Wiedemann), 1830 (Eristalis), Palpada .....       | 46.107 |
| melanocera (Williston), 1891 (Melanostoma), Rhysops .....     | 46.43  |
| melanogaster (Thomson), 1869 (Syrphus), Toxomerus .....       | 46.52  |
| melanoptera (Barretto & Lane), 1947 (Eurypterosyrphus), Aris- |        |
| tosyrphus .....   | 46.58  |
| melanorhina (Bigot), 1883 (Phalacromyia), Copestylum .....    | 46.85  |
| melanorrhinus (Philippi), 1865 (Baccha), Ocyptamus .....      | 46.22  |
| melanostoma (Macquart), 1842 (Syrphus), Scaeva .....          | 46.9   |
| Melanostoma Schiner, 1860 .....                               | 46.42  |
| Melanostomatini .....   | 46.40  |
| Melithreptus Loew, 1840 .....                                 | 46.38  |
| Melitropus Haliday, 1856 .....                                | 46.38  |
| melleum (Jaennicke), 1867 (Volucella), Copestylum .....       | 46.79  |
| melleus Curran, 1940, Microdon .....                          | 46.60  |
| melleoguttatus (Hull), 1941 (Mesogramma), Toxomerus .....     | 46.53  |
| mellinoides Macquart, 1846 (Syrphus), Xanthandrus .....       | 46.45  |
| mellinum (Linnaeus), 1758 (Musca), Melanostoma .....          | 46.42  |



|   |                |
|---|----------------|
| mellogutta Hull, 1943, Microdon .....                             | 46.66          |
| melmoth Hull, 1937, Meromacrus .....                              | 46.112         |
| mentor (Curran), 1930 (Baccha), Ocyptamus .....                   | 46.22          |
| <i>Mercurymyia</i> Fluke, 1950 .....                              | 46.11          |
| meretricias (Williston), 1888 (Volucella), Copestylum .....       | 46.79          |
| meridionalis Fluke, 1950 (Sternosyrphus), Ocyptamus .....         | 46.17          |
| <i>meridionalis</i> (Goot), 1964 (Syrphus), Ocyptamus .....       | 46.28          |
| meridionalis Townsend, 1897, Nausigaster .....                    | 46.92          |
| Meromacrus Rondani, 1848 .....                                    | 46.110, 46.111 |
| <i>Mesogramma</i> Loew, 1866 .....                                | 46.47          |
| <i>Mesograptia</i> Loew, 1872 .....                               | 46.47          |
| metallica (Bigot), 1882 (Eurhinomallota), Criorhina .....         | 46.119         |
| metalliferum (Walker), 1849 (Volucella), Copestylum .....         | 46.79          |
| <i>metalliferum</i> (Walker), 1849 (Volucella), Copestylum .....  | 46.75          |
| <i>Metallograptia</i> Hull, 1949 .....                            | 46.33          |
| metallorum (Walker), 1852 (Temnocera), Copestylum .....           | 46.79          |
| <i>Metameromacrus</i> Hull, 1942 .....                            | 46.111         |
| Metasyrphus Matsumura, 1917 .....                                 | 46.9           |
| <i>Metepistrophe</i> Hull, 1949 .....                             | 46.33          |
| mexicana Macquart, 1846, Mixogaster .....                         | 46.58          |
| mexicana (Macquart), 1847 (Eristalis), Palpada .....              | 46.107         |
| <i>mexicana</i> (Bigot), 1884 (Syritta), Neplias .....            | 46.115         |
| mexicana Curran, 1930, Lycastirrhyncha .....                      | 46.102         |
| mexicana (Enderlein), 1938 (Fazia), Allograptia .....             | 46.36          |
| mexicanum (Macquart), 1842 (Volucella), Copestylum .....          | 46.79          |
| mexicanus (Curran), 1930 (Baccha), Ocyptamus .....                | 46.22          |
| mexicanus Curran, 1930, Xanthandrus .....                         | 46.45          |
| mexicanus (Macquart), 1842 (Helophilus), Asemosyrphus .....       | 46.97          |
| meyeri (Fluke), 1939 (Tapetomyia), Arctophila .....               | 46.88          |
| meyeri (Fluke), 1945 (Melanostoma), Carposcalis .....             | 46.41          |
| Microdon Meigen, 1803 .....                                       | 46.59, 46.62   |
| Microdontinae .....   | 46.56          |
| micromidas Shannon, 1925, Microdon .....                          | 46.62          |
| micropelecinus (Shannon), 1927 (Baccha), Ocyptamus .....          | 46.22          |
| micropyga (Curran), 1941 (Baccha), Ocyptamus .....                | 46.22          |
| <i>Microsphaerophoria</i> Frey, 1946 .....                        | 46.33          |
| micrura (Osten Sacken), 1877 (Sphaerophoria), Allograptia .....   | 46.36          |
| mikii (Williston), 1888 (Ceria), Sphiximorpha .....               | 46.93          |
| Milesia Latreille, 1804 .....                                     | 46.120         |
| milesia Hull, 1942, Meromacrus .....                              | 46.112         |
| <i>milesiformis</i> Fluke, 1957, Meromacrus .....                 | 46.111         |
| Milesiinae .....  | 46.67          |
| Milesiini .....   | 46.113         |
| <i>milesioides</i> (Bigot), 1880 (Eristalomyia), Meromacrus ..... | 46.111         |
| <i>millesiformis</i> (Macquart), 1834 (Mallota), Meromacrus ..... | 46.111         |
| <i>mimetica</i> Brèthes, 1907, Salpingogaster .....               | 46.33          |
| <i>mimima</i> , Hull, 1949, Ocyptamus .....                       | 46.22          |
| <i>Mimocalla</i> Hull, 1943 .....                                 | 46.11          |
| minimus (Hull), 1949 (Baccha), Ocyptamus .....                    | 46.22          |
| minimum (Giglio-Tos), 1892 (Volucella), Copestylum .....          | 46.79          |
| minimus (Hull), 1943 (Baccha), Ocyptamus .....                    | 46.22          |
| minor Austen, 1893, Salpingogaster .....                          | 46.32          |
| minor (Shannon), 1926 (Planes), Neplias .....                     | 46.115         |
| minotaurus (Speiser), 1914 (Nosodepus), Dolichogyna .....         | 46.98          |
| <i>minuscula</i> Fluke, 1945, Rhysops .....                       | 46.43          |
| minuta Fluke, 1956, Myolepta .....                                | 46.90          |

|   |        |
|---|--------|
| <i>minutalis</i> (Williston), 1891 (Eristalis), Palpada .....           | 46.107 |
| <i>minutulus</i> (Doesburg), 1966 (Cerathophya), Paragodon .....        | 46.57  |
| <i>minutus</i> (Wiedemann), 1830 (Syrphus), Toxomerus .....             | 46.52  |
| <i>mirabilis</i> (Hull), 1925 (Eristalis), Palpada .....                | 46.107 |
| <i>mirabilis</i> Williston, 1888, Microdon .....                        | 46.66  |
| <i>missionera</i> (Lynch Arribáizaga), 1892 (Volucella), Copestylum ..  | 46.79  |
| <i>mitis</i> (Curran), 1930 (Eristalis), Palpada .....                  | 46.107 |
| <i>mitis</i> (Curran), 1930 (Mesogramma), Toxomerus .....               | 46.52  |
| <i>mitis</i> Curran, 1940, Microdon .....                               | 46.66  |
| <i>Mitrosphen</i> Enderlein, 1938 .....                                 | 46.47  |
| <i>Mixogaster</i> Macquart, 1842 .....                                  | 46.58  |
| <i>mixtus</i> Curran, 1940, Microdon .....                              | 46.62  |
| <i>mocanum</i> (Curran), 1936 (Volucella), Copestylum .....             | 46.79  |
| <i>Monoceromyia</i> Shannon, 1922 .....                                 | 46.94  |
| <i>montana</i> Hull, 1951, Quichuana .....                              | 46.99  |
| <i>montana</i> (Roeder), 1886 (Eristalis), Palpada .....                | 46.107 |
| <i>montensis</i> Hull, 1938 (Nosodepus) .....                           | 46.122 |
| <i>monticola</i> (Roeder), 1892 (Eristalis), Palpada .....              | 46.107 |
| <i>morpho</i> (Curran), 1939 (Volucella), Copestylum .....              | 46.79  |
| <i>mu</i> (Bigot), 1884 (Mesograpt?), Allograpta .....                  | 46.36  |
| <i>mulio</i> (Hull), 1941 (Mesogramma), Toxomerus .....                 | 46.52  |
| <i>mulleri</i> Fluke, 1951, Dolichogyna .....                           | 46.97  |
| <i>multipunctatus</i> (Wulp), 1883 (Mesograpt), Toxomerus .....         | 46.52  |
| <i>munozi</i> Enderlein, 1938, Allograpta .....                         | 46.36  |
| <i>murinus</i> (Curran), 1930 (Baccha), Ocyptamus .....                 | 46.22  |
| <i>mus</i> Curran, 1936, Microdon .....                                 | 46.66  |
| <i>mus</i> (Curran), 1930 (Eristalis), Palpada .....                    | 46.109 |
| <i>mus</i> (Williston), 1888 (Volucella), Copestylum .....              | 46.79  |
| <i>musanum</i> (Curran), 1930 (Volucella), Copestylum .....             | 46.79  |
| <i>muscarium</i> (Thomson), 1869 (Haurottricha), Copestylum .....       | 46.79  |
| <i>musicum</i> (Curran), 1930 (Volucella), Copestylum .....             | 46.79  |
| <i>musicus</i> (Fabricius), 1805 (Scaeva), Toxomerus .....              | 46.52  |
| <i>musta</i> (Williston), 1888 (Volucella), Copestylum .....            | 46.86  |
| <i>mustoides</i> (Curran), 1927 (Volucella), Copestylum .....           | 46.79  |
| <i>mutuus</i> (Say), 1829 (Syrphus), Toxomerus .....                    | 46.52  |
| <i>Mutillimya</i> Hull, 1943 .....                                      | 46.117 |
| <i>Myiolepta</i> , auctorum .....                                       | 46.89  |
| <i>Myolepta</i> Newman, 1838 .....                                      | 46.89  |
| <i>mystacia</i> Fluke, 1939, Mallota .....                              | 46.100 |
| <i>myrtella</i> (Hull), 1960 (Baccha), Ocyptamus .....                  | 46.22  |
| <i>Myxogaster</i> , Kertész, 1910 .....                                 | 46.58  |
| <i>Nannomyrmecomymia</i> Hull, 1945 .....                               | 46.57  |
| <i>nasicum</i> (Williston), 1891 (Ophromyia), Copestylum .....          | 46.79  |
| <i>nasicus</i> (Hull), 1941 (Mesogramma), Toxomerus .....               | 46.52  |
| <i>nasigera</i> (Enderlein), 1938 (Fazia), Allograpta .....             | 46.36  |
| <i>nasuta</i> (Bigot), 1884 (Sphaerophoria), Allograpta .....           | 46.36  |
| <i>nasuta</i> (Bigot), 1888 (Sphaerophoria), Allograpta .....           | 46.36  |
| <i>nasuta</i> (Enderlein), 1938 (Chasmia), Allograpta .....             | 46.37  |
| <i>nasutus</i> Sack, 1941, Toxomerus .....                              | 46.52  |
| <i>nasutus</i> (Williston), 1891 (Baccha), Ocyptamus .....              | 46.22  |
| <i>hausicaa</i> (Hull), 1937 (Nausigaster), Myolepta .....              | 46.90  |
| <i>Nausigaster</i> Williston, 1883 .....                                | 46.92  |
| <i>nautlanum</i> (Townsend), 1897 (Volucella), Copestylum .....         | 46.80  |
| <i>nectarinoides</i> (Lynch Arribáizaga), 1892 (Promilesia), Meromacrus | 46.112 |



|   |        |
|---|--------|
| <i>nectarinus</i> (Hull), 1942 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....            | 46.22  |
| <i>Neoscaeva</i> Frey, 1946 .....   | 46.33  |
| <i>neosplendens</i> Thompson, <i>Copestylum</i> .....                               | 46.80  |
| <i>neotropica</i> Curran, 1936, <i>Allograpta</i> .....                             | 46.36  |
| <i>neotropica</i> (Shannon), 1925 ( <i>Chrysogaster</i> ), <i>Orthonevra</i> .....  | 46.91  |
| <i>neotropicum</i> Thompson, <i>Copestylum</i> .....                                | 46.80  |
| <i>neotropicus</i> (Curran), 1937 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....      | 46.43  |
| <i>neotropicus</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....       | 46.48  |
| <i>Neplas</i> Porter, 1927 .....  | 46.114 |
| <i>neptunus</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.22  |
| <i>nerissa</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.23  |
| <i>nero</i> Curran, 1936, <i>Microdon</i> .....                                     | 46.66  |
| <i>nero</i> (Curran), 1939 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.23  |
| <i>nestor</i> Curran, 1940, <i>Microdon</i> .....                                   | 46.66  |
| <i>neuralis</i> (Curran), 1934 ( <i>Callostigma</i> ), <i>Ocyptamus</i> .....       | 46.23  |
| <i>niger</i> Sack, 1920, <i>Meromacrus</i> .....                                    | 46.112 |
| <i>niger</i> Williston, 1891, <i>Microdon</i> .....                                 | 46.66  |
| <i>nigra</i> (Bigot), 1883 ( <i>Sphiximorpha</i> ), <i>Polybiomyia</i> .....        | 46.95  |
| <i>nigra</i> Fluke, 1939, <i>Milesia</i> .....                                      | 46.120 |
| <i>nigra</i> (Giglio-Tos), 1892 ( <i>Platynochaetus</i> ), <i>Quichuana</i> .....   | 46.98  |
| <i>nigra</i> Hull, 1949, <i>Quichuana</i> .....                                     | 46.99  |
| <i>nigra</i> Macquart, 1846, <i>Rhingia</i> .....                                   | 46.69  |
| <i>nigra</i> Schiner, 1868, <i>Salpingogaster</i> .....                             | 46.32  |
| <i>nigra</i> Shannon, 1927, <i>Mallota</i> .....                                    | 46.100 |
| <i>nigra</i> (Shannon), 1927 ( <i>Valdivia</i> ), <i>Valdiviomyia</i> .....         | 46.118 |
| <i>nigrans</i> Fluke, 1945, <i>Rhysops</i> .....                                    | 46.44  |
| <i>nigribucca</i> Enderlein, 1938, <i>Allograpta</i> .....                          | 46.37  |
| <i>nigricans</i> Thompson, <i>Quichuana</i> .....                                   | 46.99  |
| <i>nigricauda</i> Sack, 1920, <i>Salpingogaster</i> .....                           | 46.32  |
| <i>nigricorne</i> Williston, 1886, <i>Stilbosoma</i> .....                          | 46.121 |
| <i>nigricornis</i> Philippi, 1865, <i>Tropidia</i> .....                            | 46.120 |
| <i>nigrifacies</i> (Bigot), 1875 ( <i>Volucella</i> ), <i>Copestylum</i> .....      | 46.80  |
| <i>nigrifrons</i> (Bigot), 1883 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.21  |
| <i>nigrifrons</i> (Hine), 1914 ( <i>Phalacromyia</i> ), <i>Copestylum</i> .....     | 46.80  |
| <i>nigrinervis</i> Philippi, 1865, <i>Stilbosoma</i> .....                          | 46.121 |
| <i>nigripennis</i> (Macquart), 1885 ( <i>Eristalis</i> ), <i>Palpada</i> .....      | 46.107 |
| <i>nigripennis</i> (Williston), 1887 ( <i>Ceria</i> ), <i>Sphiximorpha</i> .....    | 46.94  |
| <i>nigripes</i> (Bigot), 1857 ( <i>Phalacromyia</i> ), <i>Copestylum</i> .....      | 46.80  |
| <i>nigripes</i> Bigot, 1883, <i>Dolichogyna</i> .....                               | 46.98  |
| <i>nigripes</i> (Loew), 1866 ( <i>Syrphus</i> ), <i>Xanthandrus</i> .....           | 46.44  |
| <i>nigripes</i> (Wiedemann), 1830 ( <i>Eristalis</i> ), <i>Palpada</i> .....        | 46.107 |
| <i>nigripunctus</i> (Enderlein), 1938 ( <i>Mesogramma</i> ), <i>Toxomerus</i> ..... | 46.52  |
| <i>nigriscutellata</i> (Macquart), 1848 ( <i>Eristalis</i> ), <i>Palpada</i> .....  | 46.107 |
| <i>nigrispinosus</i> Shannon, 1927, <i>Microdon</i> .....                           | 46.66  |
| <i>nigritus</i> Fabricius, 1794 ( <i>Syrphus</i> ) .....                            | 46.39  |
| <i>nigriventris</i> Bigot, 1883, <i>Salpingogaster</i> .....                        | 46.33  |
| <i>nigriventris</i> (Bruch), 1923 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....         | 46.25  |
| <i>nigrocilia</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....            | 46.23  |
| <i>nigrocoeruleus</i> Vockeroth, 1964, <i>Alipumilio</i> .....                      | 46.92  |
| <i>nigropodum</i> (Hull), 1949 ( <i>Volucella</i> ), <i>Copestylum</i> .....        | 46.80  |
| <i>nigroscutatus</i> Bigot, 1882, <i>Aemosyrphus</i> .....                          | 46.97  |
| <i>nigroscutellata</i> (auctorum), ( <i>Eristalis</i> ), <i>Palpada</i> .....       | 46.107 |
| <i>nigroventris</i> , Williston, 1886, <i>Salpingogaster</i> .....                  | 46.33  |
| <i>nigroviride</i> (Hull), 1949 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.80  |
| <i>nigrum</i> (Greene), 1923 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.79  |



|  |        |
|--|--------|
| <i>niobe</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                          | 46.23  |
| <i>nitens</i> Bigot, 1859, <i>Lycastirrhyncha</i> .....                                      | 46.102 |
| <i>nitescens</i> (Shannon & Aubertin), 1933 ( <i>Chilosia</i> ), <i>Notiocheilosia</i> ..... | 46.88  |
| <i>nitida</i> (Wiedemann), 1830 ( <i>Chrysogaster</i> ), <i>Orthonevra</i> .....             | 46.91  |
| <i>nitida</i> Sack, 1941 ( <i>Cerioides</i> ) .....  | 46.95  |
| <i>nitidigaster</i> (Hull), 1937 ( <i>Volucella</i> ), <i>Copestylum</i> .....               | 46.80  |
| <i>nitidiventris</i> (Curran), 1930 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....            | 46.53  |
| <i>nitidula</i> (Fluke), 1939 ( <i>Heliophilus</i> ), <i>Xylota</i> .....                    | 46.114 |
| <i>nitidulus</i> (Curran), 1930 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                    | 46.23  |
| <i>nitidulus</i> Fluke, 1937, <i>Xanthandrus</i> .....                                       | 46.45  |
| <i>nitidus</i> (Schiner), 1868 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                 | 46.53  |
| <i>nodosus</i> (Hull), 1930 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                        | 46.23  |
| <i>nora</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                         | 46.23  |
| <i>norina</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                       | 46.23  |
| <i>norma</i> (Curran), 1930 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                    | 46.53  |
| <i>normalis</i> Curran, 1925, <i>Microdon</i> .....  | 46.66  |
| <i>Nosodepus</i> Speiser, 1914 .....   | 46.97  |
| <i>notata</i> (Bigot), 1882 ( <i>Ortholophus</i> ), <i>Tropidia</i> .....                    | 46.120 |
| <i>notata</i> Doesburg, 1966, <i>Allograpta</i> .....  | 46.34  |
| <i>notatum</i> (Bigot), 1875 ( <i>Volucella</i> ), <i>Copestylum</i> .....                   | 46.80  |
| <i>notatus</i> Coquillett, 1902, <i>Ocyptamus</i> .....                                      | 46.19  |
| <i>notatus</i> (Loew), 1866 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                        | 46.23  |
| <i>notatus</i> (Wiedemann), 1824 ( <i>Ceratophya</i> ), <i>Microdon</i> .....                | 46.59  |
| <i>Nothomicrodon</i> Wheeler, 1924 .....   | 46.67  |
| <i>Notiocheilosia</i> Thompson, 1972 .....   | 46.88  |
| <i>Notosyrphus</i> Vockeroth, 1969 .....   | 46.10  |
| <i>nova</i> Giglio-Tos, 1892, <i>Salpingogaster</i> .....                                    | 46.32  |
| <i>novum</i> (Fluke), 1951 ( <i>Volucella</i> ), <i>Copestylum</i> .....                     | 46.84  |
| <i>nubeculosus</i> Wulp, 1888 ( <i>Pterallastes</i> ) .....                                  | 46.122 |
| <i>nymphaea</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                       | 46.23  |
| <i>nymphalius</i> (Hull), 1942 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                 | 46.53  |
| <i>obesa</i> (Fabricius), 1775 ( <i>Syrphus</i> ), <i>Ornidia</i> .....                      | 46.69  |
| <i>obesoides</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Ornidia</i> .....               | 46.70  |
| <i>obliqua</i> (Curran), 1940 ( <i>Eristalis</i> ), <i>Palpada</i> .....                     | 46.107 |
| <i>obliqua</i> (Say), 1823 ( <i>Scaeva</i> ), <i>Allograpta</i> .....                        | 46.36  |
| <i>obliquicorne</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....             | 46.80  |
| <i>obliquus</i> (Curran), 1941 ( <i>Callostigma</i> ), <i>Ocyptamus</i> .....                | 46.23  |
| <i>oblongus</i> (Walker), 1852 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                     | 46.23  |
| <i>obscura</i> Coquillett, 1902, <i>Spilomyia</i> .....                                      | 46.121 |
| <i>obscuripenne</i> (Lynch Arribáizaga), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> .....  | 46.80  |
| <i>obscurius</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....                | 46.80  |
| <i>obscurus</i> Hine, 1924, <i>Meromacrus</i> .....  | 46.112 |
| <i>obsoleta</i> (Wiedemann), 1830 ( <i>Eristalis</i> ), <i>Palpada</i> .....                 | 46.107 |
| <i>obsoletus</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                    | 46.23  |
| <i>occidentalis</i> Shannon, 1927, <i>Scaeva</i> .....                                       | 46.9   |
| <i>ochracea</i> (Hull), 1941 ( <i>Edwardsiella</i> ), <i>Habromyia</i> .....                 | 46.101 |
| <i>ochracea</i> (Williston), 1888 ( <i>Eristalis</i> ), <i>Palpada</i> .....                 | 46.107 |
| <i>ochraceus</i> (Hull), 1942 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                  | 46.53  |
| <i>ochreolinea</i> (Hull), 1944 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                    | 46.23  |
| <i>ochrogaster</i> (Thomson), 1869 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....                | 46.50  |
| <i>octoguttatus</i> (Jaennicke), 1867 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....             | 46.53  |
| <i>octomaculata</i> Enderlein, 1938, <i>Allograptina</i> .....                               | 46.39  |
| <i>octomaculatus</i> Thompson, <i>Ocyptamus</i> .....  | 46.24  |
| <i>octomaculatus</i> Walker, 1837, <i>Syrphus</i> .....                                      | 46.8   |



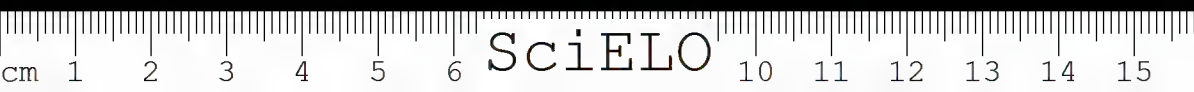
|   |        |
|---|--------|
| <i>oculiferus</i> Bigot, 1882, <i>Asemosyrphus</i> .....                          | 46.97  |
| <i>Ocyptamus</i> Macquart, 1834 .....   | 46.11  |
| <i>odontomera</i> (Curran), 1941 ( <i>Cerioides</i> ), <i>Polybiomyia</i> .....   | 46.95  |
| <i>odyneroides</i> (Philippi), 1865 ( <i>Doros</i> ), <i>Odyneromyia</i> .....    | 46.117 |
| <i>Odyneromyia</i> Shannon & Aubertin, 1933 .....                                 | 46.117 |
| <i>oenone</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....              | 46.24  |
| <i>oestroides</i> (Hull), 1943 ( <i>Volucella</i> ), <i>Copestylum</i> .....      | 46.80  |
| <i>olga</i> (Hull), 1942 ( <i>Baccha</i> ), <i>Leucopodella</i> .....             | 46.47  |
| <i>oligonax</i> Hull, 1944, <i>Microdon</i> .....                                 | 46.66  |
| <i>Oligorhina</i> Hull, 1937 .....  | 46.33  |
| <i>olivaceus</i> Giglio-Tos, 1892, <i>Asemosyrphus</i> .....                      | 46.96  |
| <i>Omegasyrphus</i> Giglio-Tos, 1891 .....  | 46.59  |
| <i>omochroma</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> ..... | 46.80  |
| <i>opacus</i> Fluke, 1945, <i>Rhysops</i> .....                                   | 46.44  |
| <i>opacus</i> Fluke, 1950 ( <i>Stenosyrphus</i> ), <i>Ocyptamus</i> .....         | 46.24  |
| <i>opalicolor</i> (Hull), 1943 ( <i>Volucella</i> ), <i>Copestylum</i> .....      | 46.80  |
| <i>opalina</i> (Townsend), 1897 ( <i>Volucella</i> ), <i>Copestylum</i> .....     | 46.84  |
| <i>opeostoma</i> (Hull), 1949 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.80  |
| <i>ophiolinea</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Toxomerus</i> .....          | 46.53  |
| <i>Ophromyia</i> Williston, 1891 .....  | 46.70  |
| <i>opinator</i> (Williston), 1891 ( <i>Volucella</i> ), <i>Copestylum</i> .....   | 46.80  |
| <i>opulentus</i> (Bigot), 1883 ( <i>Eristalis</i> ), <i>Meromacrus</i> .....      | 46.112 |
| <i>opulentus</i> Bigot, 1883, <i>Microdon</i> .....                               | 64.66  |
| <i>oriel</i> (Hull), 1942 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.24  |
| <i>ornata</i> (Townsend), 1897 ( <i>Eristalis</i> ), <i>Palpada</i> .....         | 46.108 |
| <i>ornatipes</i> (Curran), 1927 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....         | 46.24  |
| <i>ornatum</i> (Williston), 1891 ( <i>Volucella</i> ), <i>Copestylum</i> .....    | 46.80  |
| <i>ornatus</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....         | 46.51  |
| <i>ornatus</i> Sack, 1941, <i>Toxomerus</i> .....                                 | 46.53  |
| <i>Ornidia</i> Lepeletier & Serville, 1828 .....                                  | 46.69  |
| <i>ornithoglyphus</i> (Hull), 1942 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....  | 46.53  |
| <i>orpheus</i> Hull, 1944, <i>Mixogaster</i> .....                                | 46.58  |
| <i>Orphnabaccha</i> Hull, 1949 .....  | 46.11  |
| <i>ortalina</i> Wulp, 1888, <i>Lepidomyia</i> .....                               | 46.89  |
| <i>Ortholophus</i> Bigot, 1882 .....  | 46.120 |
| <i>Orthoneura, auctorum</i> .....   | 46.90  |
| <i>Orthonevra</i> Macquart, 1829 .....  | 46.90  |
| <i>osburni</i> (Hull), 1942 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.80  |
| <i>ovatus</i> (Hull), 1942 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....          | 46.53  |
| <i>oviphorus</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....           | 46.24  |
| <i>ovipositorius</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....       | 46.24  |
| <i>pachecoi</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....      | 46.81  |
| <i>pachypyga</i> Bigot, 1884, <i>Sphaerophoria</i> .....                          | 46.38  |
| <i>pachymera</i> (Loew), 1866 ( <i>Xylota</i> ), <i>Neplas</i> .....              | 46.115 |
| <i>pachypoda</i> (Bigot), 1880 ( <i>Eristalomyia</i> ), <i>Palpada</i> .....      | 46.107 |
| <i>pachypus</i> (Wiedemann), 1830 ( <i>Eristalis</i> ), <i>Meromacrus</i> .....   | 46.112 |
| <i>palitarsis</i> (Curran), 1934 ( <i>Planes</i> ), <i>Neplas</i> .....           | 46.115 |
| <i>pallens</i> (Wiedemann), 1830 ( <i>Volucella</i> ), <i>Copestylum</i> .....    | 46.81  |
| <i>palliatius</i> (Fluke), 1945 ( <i>Melanostoma</i> ), <i>Xanthandrus</i> .....  | 46.45  |
| <i>pallidithorax</i> (Hull), 1941 ( <i>Volucella</i> ), <i>Copestylum</i> .....   | 46.81  |
| <i>pallidius</i> (Giglio-Tos), 1892 ( <i>Volucella</i> ), <i>Copestylum</i> ..... | 46.82  |
| <i>pallidum</i> (Macquart), 1842 ( <i>Volucella</i> ), <i>Copestylum</i> .....    | 46.81  |
| <i>pallipes</i> (Bigot), 1883 ( <i>Spilomyia</i> ), <i>Blera</i> .....            | 46.119 |
| <i>pallipes</i> (Bigot), 1884 ( <i>Mesograpta?</i> ), <i>Toxomerus</i> .....      | 46.55  |

|   |        |
|---|--------|
| pallipes Bigot, 1884, Syrphus .....                       | 46.8   |
| pallisteri (Curran), 1953 (Volucella), Copestylum .....   | 46.81  |
| palmyra (Hull), 1949 (Volucella), Copestylum .....        | 46.81  |
| Palpada Macquart, 1834 .....                              | 46.102 |
| panamana Hull, 1944, Salpingogaster .....                 | 46.32  |
| panamena (Curran), 1941 (Planes), Neplas .....            | 46.115 |
| panamense (Curran), 1930 (Volucella), Copestylum .....    | 46.81  |
| panamensis (Curran), 1930 (Baccha), Ocyptamus .....       | 46.24  |
| panamensis (Curran), 1930 (Callostigma), Ocyptamus .....  | 46.20  |
| panamensis Curran, 1930, Ceriogaster .....                | 46.116 |
| panamensis (Curran), 1930 (Mesogramma), Toxomerus .....   | 46.53  |
| panamensis Curran, 1930, Meromacrus .....                 | 46.113 |
| panamensis Curran, 1930, Microdon .....                   | 46.59  |
| panamenum (Curran), 1939 (Volucella), Copestylum .....    | 46.81  |
| Pandasyopthalmus Stuckenberg, 1954 .....                  | 46.40  |
| pandora (Hull), 1942 (Baccha), Ocyptamus .....            | 46.24  |
| panamana, Fluke, 1957, Salpingogaster .....               | 46.32  |
| papilio (Hull), 1942 (Baccha), Ocyptamus .....            | 46.24  |
| Papiliomyia Hull, 1937 .....                              | 46.60  |
| papilionarius (Hull), 1943 (Baccha), Ocyptamus .....      | 46.24  |
| para (Curran), 1941 (Baccha), Ocyptamus .....             | 46.24  |
| Paraceratophya, Fluke, 1957 .....                         | 46.57  |
| Paragini .....  | 46.40  |
| Paragodon Thompson, 1969 .....                            | 46.56  |
| paragoides Thompson, 1969, Paragodon .....                | 46.57  |
| paragrammus (Schiner), 1868 (Mesogramma), Toxomerus ..... | 46.53  |
| Paragus Latreille, 1804 .....                             | 46.40  |
| Paramicrodon Meijere, 1913 .....                          | 46.57  |
| parana (Hull), 1942 (Volucella), Copestylum .....         | 46.81  |
| parina (Fluke), 1951 (Volucella), Copestylum .....        | 46.81  |
| parisii Ceresa, 1934, Quichuana .....                     | 46.99  |
| parvicornis (Loew), 1861 (Baccha), Ocyptamus .....        | 46.24  |
| parvula (Williston), 1888 (Eristalis), Palpada .....      | 46.108 |
| parvum Giglio-Tos, 1892, Copestylum .....                 | 46.84  |
| parvum (Rondani), 1848 (Volucella), Copestylum .....      | 46.81  |
| patagonus Lynch Arribálzaga, 1892, Syrphus .....          | 46.8   |
| pauper (Rondani), 1848 (Aphritis), Microdon .....         | 46.66  |
| pauilla (Williston), 1892 (Xylota), Neplas .....          | 46.115 |
| pectinis Fluke, 1943, Tuberculanostoma .....              | 46.45  |
| pectorale (Rondani), 1863 (Volucella), Copestylum .....   | 46.81  |
| pedicellata (Williston), 1887 (Ceria), Polybiomyia .....  | 46.95  |
| Pelecinobaccha Shannon, 1927 .....                        | 46.11  |
| penaltis (Curran), 1934 (Eristalis), Palpada .....        | 46.108 |
| Penium Philippi, 1865 .....                               | 46.67  |
| pennatus (Hull), 1943 (Baccha), Ocyptamus .....           | 46.24  |
| pennipes (Sack), 1941 (Tubifera), Dolichogyna .....       | 46.98  |
| Penthesilea Meigen, 1800 .....                            | 46.118 |
| peri (Hull), 1943 (Baccha), Ocyptamus .....               | 46.24  |
| perlatus (Hine), 1914 (Volucella), Copestylum .....       | 46.81  |
| perpolita (Johnson), 1921 (Lepidostola), Lepidomyia ..... | 46.89  |
| persa Williston, 1891, Eristalis .....                    | 46.102 |
| persimile (Williston), 1888 (Volucella), Copestylum ..... | 46.81  |
| persimilis (Curran), 1930 (Baccha), Ocyptamus .....       | 46.24  |
| pertinax (Hull), 1950 (Volucella), Copestylum .....       | 46.81  |
| peruana Sack, 1941, Dolichogyna .....                     | 46.97  |

|  |        |
|--|--------|
| peruvianum (Vimmer & Soukop), 1938 (Volucella), Copestylum | 46.81  |
| peruvianus (Shannon), 1927 (Baccha), Ocyptamus             | 46.25  |
| peruvianus (Shannon), 1927 (Braziliana), Rhysops           | 46.44  |
| peruviensis Shannon, 1922, Nausigaster                     | 46.92  |
| pessulagyna Hull, 1941, Salpingogaster                     | 46.32  |
| petiolata Hull, 1944, Salpingogaster                       | 46.32  |
| petiolatus (Hull), 1937 (Cerioimicrodon), Microdon         | 46.60  |
| phaeopterus (Schiner), 1868 (Baccha), Ocyptamus            | 46.25  |
| phaeostigma Wiedemann, 1830, Syrphus                       | 46.8   |
| <i>Phalacromyia</i> Rondani, 1848                          | 46.70  |
| <i>Phalacromyia</i> , auctorum                             | 46.70  |
| philippi (Shannon), 1925 (Cerioides), Sphiximorpha         | 46.93  |
| philippii (Schiner), 1868 (Eristalis), Palpada             | 46.105 |
| philippii (Shannon), 1927 (Mesogramma), Toxomerus          | 46.53  |
| philippianus (Enderlein), 1938 (Baccha), Ocyptamus         | 46.25  |
| Philippimyia Shannon, 1926                                 | 46.119 |
| philodice (Hull), 1950 (Baccha), Ocyptamus                 | 46.25  |
| phobia (Hull), 1943 (Baccha), Ocyptamus                    | 46.18  |
| phobifer (Hull), 1943 (Baccha), Ocyptamus                  | 46.25  |
| Pia Philippi, 1865   | 46.122 |
| pica (Schiner), 1868 (Phalacromyia), Copestylum            | 46.81  |
| pica (Walker), 1857 (Pipiza), Ocyptamus                    | 46.19  |
| picadoi Knab, 1913, Quichuana                              | 46.99  |
| picta (Kertész), 1902 (Ceria), Sphiximorpha                | 46.94  |
| picta (Philippi), 1865 (Helophilus), Dolichogyna           | 46.98  |
| picticauda (Bigot), 1884 (Sphaerophoria), Allograpta       | 46.36  |
| pictipes Bigot, 1884, Melanostoma                          | 46.42  |
| pictoides (Hull), 1941 (Volucella), Copestylum             | 46.81  |
| pictulus (Hull), 1949 (Baccha), Ocyptamus                  | 46.15  |
| pictum (Schiner), 1868 (Phalacromyia), Copestylum          | 46.81  |
| pictum (Wiedemann), 1830 (Volucella), Copestylum           | 46.82  |
| pictum (Wiedemann), 1830 (Volucella), Copestylum           | 46.82  |
| pictus (Macquart), 1842 (Syrphus), Toxomerus               | 46.53  |
| pigra (Fabricius), 1794 (Syrphus), Xylota                  | 46.114 |
| pilipes (Schiner), 1868 (Baccha), Ocyptamus                | 46.25  |
| pinguis (Fabricius), 1775 (Syrphus), Meromacrus            | 46.111 |
| pinkusi (Curran), 1938 (Volucella), Copestylum             | 46.82  |
| pinkusi (Curran), 1939 (Baccha), Ocyptamus                 | 46.25  |
| pipiens (Linnaeus), 1758 (Musca), Syritta                  | 46.119 |
| Pipiza Fallén, 1810  | 46.67  |
| Pipizini   | 46.67  |
| <i>Pipunculosyrphus</i> Hull, 1937                         | 46.11  |
| pirata (Curran), 1939 (Baccha), Ocyptamus                  | 46.25  |
| pithecofascia Hull, 1944, Mixogaster                       | 46.58  |
| piurana Shannon, 1927, Allograpta                          | 46.37  |
| placivum (Hull), 1943 (Volucella), Copestylum              | 46.82  |
| placivus (Williston), 1888 (Baccha), Ocyptamus             | 46.25  |
| plagiatus (Wiedemann), 1830 (Xylota), Sterphus             | 46.117 |
| <i>Plagiocera</i> Macquart, 1842                           | 46.110 |
| <i>Planes</i> Rondani, 1863                                | 46.114 |
| planifrons (Brèthes), 1908 (Masarygus), Microdon           | 46.61  |
| plaumanni (Curran), 1939 (Volucella), Copestylum           | 46.82  |
| plaumanni Curran, 1940, Microdon                           | 46.61  |
| plaumanni (Curran), 1941 (Cerioides), Polybiomyia          | 46.95  |
| plaumanni Fluke, 1937, Xanthandrus                         | 46.45  |

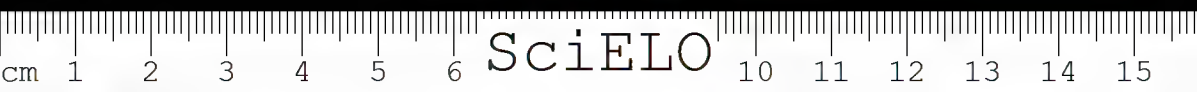


|   |        |
|---|--------|
| plaumanni (Frey), 1946 (Mocrosphaerophoria), Allograpta | 46.37  |
| pleuralis Williston, 1887, Spilomyia                    | 46.121 |
| piorans (Rondani), 1848 (Volucella), Copestylum         | 46.82  |
| plurimaculatus Rondani, 1863 (Syrphus)                  | 46.39  |
| pluto Hull, 1942, Meromacrus                            | 46.113 |
| plutonia (Hull), 1948 (Baccha), Ocyptamus               | 46.25  |
| podagra (Macquart), 1842 (Eristalis), Palpada           | 46.105 |
| pocilogaster Philippi, 1865, Syrphus                    | 46.8   |
| pocilogastrus (Loew), 1865 (Mesogramma), Toxomerus      | 46.53  |
| pogonosa Fluke, 1937, Quichuana                         | 46.99  |
| pola (Curran), 1939 (Baccha), Ocyptamus                 | 46.25  |
| polista (Hull), 1943 (Baccha), Ocyptamus                | 46.25  |
| polistes (Curran), 1941 (Cerioides), Sphiximorpha       | 46.94  |
| polistes Hull, 1954, Mixogaster                         | 46.58  |
| polistiformes (Hull), 1944 (Cerioides), Sphiximorpha    | 46.94  |
| Polistoceria Hull, 1949                                 | 46.93  |
| polita Williston, 1888, Trichopsomyia                   | 46.68  |
| politus (Say), 1823 (Scaeva), Toxomerus                 | 46.53  |
| pollinosus Hull, 1942, Rhysops                          | 46.44  |
| polorans (Williston), 1886 (Volucella), Copestylum      | 46.82  |
| Polybiomyia Shannon, 1925                               | 46.95  |
| Polydonta Macquart, 1850                                | 46.96  |
| Polydontomyia Williston, 1896                           | 46.96  |
| polygrammus (Loew), 1872 (Helophilus), Asemosyrphus     | 46.96  |
| polygraphicus (Hull), 1940 (Mesogramma), Toxomerus      | 46.54  |
| porteri (Curran), 1935 (Eristalis), Palpada             | 46.104 |
| porticola (Thomson), 1869 (Syrphus), Toxomerus          | 46.54  |
| portius (Walker), 1852 (Syrphus), Toxomerus             | 46.54  |
| Posthonia Enderlein, 1938                               | 46.9   |
| Posthosyrphus Enderlein, 1938                           | 46.9   |
| posticum (Say), 1830 (Volucella), Copestylum            | 46.82  |
| potens Curran, 1932, Meromacrus                         | 46.113 |
| potentila (Hull), 1942 (Baccha), Ocyptamus              | 46.25  |
| poultoni Verrall, 1913, Callicera                       | 46.88  |
| praeclarus (Giglio-Tos), 1892 (Eristalis), Palpada      | 46.108 |
| praeustus (Loew), 1866 (Syrphus), Rhysops               | 46.44  |
| prasinus (Schiner), 1868 (Phalacromyia), Copestylum     | 46.82  |
| pratorum (Fabricius), 1775 (Syrphus), Meromacrus        | 46.113 |
| precipua (Williston), 1888 (Eristalis), Palpada         | 46.108 |
| prenes (Curran), 1930 (Baccha), Ocyptamus               | 46.25  |
| prescutellare (Williston), 1888 (Volucella), Copestylum | 46.82  |
| pretiosa Loew, 1861, Xylota                             | 46.114 |
| prima (Curran), 1941 (Aristosyrphus), Argentinomyia     | 46.57  |
| Primochrysotoxum Shannon, 1926                          | 46.40  |
| princeps (Hull), 1944 (Baccha), Ocyptamus               | 46.26  |
| priscilla (Hull), 1943 (Baccha), Ocyptamus              | 46.26  |
| problematica Thompson, 1968, Myolepta                   | 46.90  |
| procedens Curran, 1941, Microdon                        | 46.62  |
| procteri (Curran), 1939 (Volucella), Copestylum         | 46.82  |
| procteri Curran, 1941, Microdon                         | 46.62  |
| producta (Macquart), 1850 (Syrphus), Carposcalis        | 46.41  |
| productus (Curran), 1930 (Mesogramma), Toxomerus        | 46.54  |
| productus (Curran), 1930 (Mesogramma), Toxomerus        | 46.111 |
| Fromilesia Lynch Arribálzaga, 1892                      | 46.57  |
| Protoceratophya Hull, 1949                              | 46.90  |
| Protolepidostola Hull, 1949                             | 46.90  |



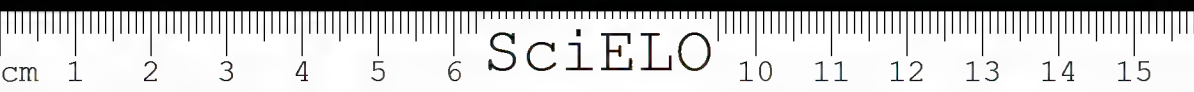


|  |        |
|--|--------|
| provocans (Curran), 1939 (Baccha), Ocyptamus .....                     | 46.26  |
| proxima (Hull), 1944 (Planes), Neplas .....                            | 46.115 |
| <i>proxima</i> (Rondani), 1848 (Eristalis), Palpada .....              | 46.105 |
| <i>proximus</i> Schiner, 1868, Ocyptamus .....                         | 46.27  |
| prudens (Curran), 1934 (Baccha), Ocyptamus .....                       | 46.26  |
| <i>ruinosa</i> Bigot, 1884, Melanostoma .....                          | 46.42  |
| prunella (Hull), 1943 (Baccha), Ocyptamus .....                        | 46.26  |
| Pseudodoros Becker, 1903 .....   | 46.10  |
| <i>Pseudomicrodon</i> Hull, 1937 .....                                 | 46.59  |
| <i>pseudoribesii</i> Vimmer & Soukup, 1938, Syrphus .....              | 46.8   |
| <i>Pseudoscaeva</i> Vockeroth, 1969 .....                              | 46.11  |
| <i>pseudotachina</i> Hull, 1930, Tachinosyrphus .....                  | 46.70  |
| pteronis (Fluke), 1942 (Epistrophe), Ocyptamus .....                   | 46.26  |
| <i>Pteroptila</i> Loew, 1866 .....                                     | 46.111 |
| pubescens (Loew), 1861 (Volucella), Copestylum .....                   | 46.82  |
| pubescens (Shannon & Aubertin), 1933 (Chilosia), Chromocheilosia ..... | 46.90  |
| puella Williston, 1888, Trichopsomyia .....                            | 46.68  |
| puellus (Hull), 1942 (Mesogramma), Toxomerus .....                     | 46.54  |
| puerilis (Doesburg), 1966 (Ubristes), Microdon .....                   | 46.62  |
| pulchellus (Macquart), 1846 (Syrphus), Toxomerus .....                 | 46.54  |
| pulcher Williston, 1887, Microdon .....                                | 46.66  |
| pulchra Hull, 1944, Tropidia .....                                     | 46.120 |
| pulchra Shannon, 1927, Allograpta .....                                | 46.37  |
| pulchra (Williston), 1888 (Lepidostola), Lepidomyia .....              | 46.89  |
| pulchra Williston, 1892, Milesia .....                                 | 46.120 |
| pulchrapuella (Hull), 1943 (Volucella), Copestylum .....               | 46.82  |
| pulchripes (Bigot), 1875 (Volucella), Copestylum .....                 | 46.82  |
| pulchrum (Williston), 1891 (Phalacromyia), Copestylum .....            | 46.82  |
| pullatus Vockeroth, 1964, Alipumilio .....                             | 46.92  |
| pullus (Sack), 1921 (Baccha), Ocyptamus .....                          | 46.26  |
| puma (Curran), 1941 (Planes), Neplas .....                             | 46.115 |
| pumilus (Austen), 1893 (Baccha), Ocyptamus .....                       | 46.26  |
| <i>punctata</i> (Shannon), 1927 (Baccha), Ocyptamus .....              | 46.12  |
| <i>punctata</i> Shannon & Aubertin, 1933, Scaeva .....                 | 46.10  |
| <i>punctata</i> Williston, 1883, Nausigaster .....                     | 46.93  |
| <i>punctatus</i> Macquart, 1842 (Syrphus) .....                        | 46.39  |
| <i>punctatus</i> Sack, 1921, Toxomerus .....                           | 46.54  |
| <i>punctiferum</i> (Bigot), 1875 (Volucella), Copestylum .....         | 46.82  |
| <i>punctifrons</i> Curran, 1929, Salpingogaster .....                  | 46.32  |
| <i>punctifrons</i> (Williston), 1891 (Baccha), Ocyptamus .....         | 46.26  |
| <i>punctigena</i> (Hull), 1937 (Volucella), Copestylum .....           | 46.82  |
| <i>punctulata</i> (Wulp), 1888 (Melanostoma), Carposcalis .....        | 46.41  |
| <i>purpurascens</i> (Loew), 1869 (Temnocera), Copestylum .....         | 46.82  |
| <i>purpureum</i> (Walker), 1849 (Volucella), Copestylum .....          | 46.82  |
| <i>purpuriferum</i> (Bigot), 1875 (Volucella), Copestylum .....        | 46.82  |
| <i>purus</i> (Curran), 1930 (Mesogramma), Toxomerus .....              | 46.54  |
| <i>pusilla</i> (Macquart), 1842 (Eristalis), Palpada .....             | 46.108 |
| <i>pusillum</i> (Macquart), 1842 (Volucella), Copestylum .....         | 46.83  |
| <i>pusio</i> (Wiedemann), 1830 (Eristalis), Palpada .....              | 46.108 |
| <i>pusioides</i> (Hull), 1951 (Eristalis), Palpada .....               | 46.108 |
| <i>pygmaea</i> (Macquart), 1842 (Eristalis), Palpada .....             | 46.106 |
| <i>pygophora</i> Schiner, 1868, Salpingogaster .....                   | 46.32  |
| <i>pygolampa</i> (Wiedemann), 1830 (Eristalis), Palpada .....          | 46.108 |
| <i>pyrastri</i> Linnaeus, of Lynch Arribálzaga, 1892, Scaeva .....     | 46.9   |



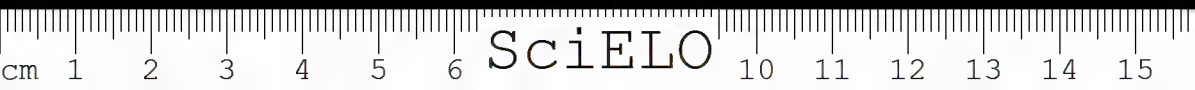
|  |        |
|--|--------|
| <i>pyrrhina</i> Bigot, 1884, <i>Sphaerophoria</i> .....  | 46.38  |
| <i>pyrrhocera</i> (Kertész), 1963 ( <i>Ceria</i> ), <i>Sphiximorpha</i> .....                    | 46.94  |
| <i>pyxia</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                              | 46.26  |
| <i>quadraticornis</i> (Macquart), 1842 ( <i>Eristalis</i> ), <i>Palpada</i> .....                | 46.107 |
| <i>quadratum</i> (Williston), 1891 ( <i>Volucella</i> ), <i>Copestylum</i> .....                 | 46.83  |
| <i>quadriceincta</i> Enderlein, 1938, <i>Allograpta</i> .....                                    | 46.37  |
| <i>quadrigemina</i> (Thomson), 1869 ( <i>Syrphus</i> ), <i>Allograpta</i> .....                  | 46.35  |
| <i>quadrilineatus</i> (Enderlein), 1938 ( <i>Hybobathus</i> ), <i>Toxomerus</i> ....             | 46.54  |
| <i>quadrinotatus</i> Enderlein, 1938, <i>Allograpta</i> .....                                    | 46.36  |
| <i>quadrinotatus</i> Hull, 1944, <i>Rhysops</i> .....  | 46.44  |
| <i>quadrinotatus</i> (Bigot), 1884 ( <i>Melanostoma</i> ), <i>Xanthandrus</i> ....               | 46.45  |
| <i>quadripunctatum</i> (Doesburg), 1963 ( <i>Volucella</i> ), <i>Copestylum</i> ...              | 46.81  |
| <i>quadristriata</i> (Shannon & Aubertin), 1933 ( <i>Chrysogaster</i> ), <i>Orthonevra</i> ..... | 46.91  |
| <i>Quichuana</i> Knab, 1913 .....  | 46.98  |
| <i>Quihuana</i> Hull, 1944 .....   | 46.98  |
| <i>quinquecinctus</i> (Bigot), 1888 ( <i>Mesograpta</i> ), <i>Toxomerus</i> .....                | 46.54  |
| <i>quinquemaculatus</i> (Bigot), 1888 ( <i>Mesograpta</i> ), <i>Toxomerus</i> ....               | 46.54  |
| <i>quinta</i> Doesburg, 1963, <i>Lycastirrhyncha</i> .....                                       | 46.102 |
| <i>quitensis</i> (Macquart), 1855 ( <i>Eristalis</i> ), <i>Palpada</i> .....                     | 46.108 |
| <i>quixotea</i> Hull, 1946, <i>Quichuana</i> .....   | 46.99  |
| <i>radiatus</i> Bigot, 1857 ( <i>Syrphus</i> ) .....   | 46.39  |
| <i>rafaelanum</i> (Townsend), 1897 ( <i>Volucella</i> ), <i>Copestylum</i> .....                 | 46.83  |
| <i>rarior</i> Shannon, 1925, <i>Mixogaster</i> .....   | 46.59  |
| <i>rarissima</i> Shannon, 1925, <i>Mixogaster</i> .....  | 46.59  |
| <i>rectilinea</i> Hull, 1942, <i>Habromyia</i> .....   | 46.101 |
| <i>rectum</i> (Wulp), 1882 ( <i>Temnocera</i> ), <i>Copestylum</i> .....                         | 46.83  |
| <i>reedi</i> Shannon, 1927, <i>Syrphus</i> .....   | 46.8   |
| <i>relicta</i> Curran, 1941, <i>Salpingogaster</i> .....   | 46.32  |
| <i>remigis</i> (Fluke), 1942 ( <i>Epistrophe</i> ), <i>Allograpta</i> .....                      | 46.37  |
| <i>remotus</i> Knab, 1917, <i>Microdon</i> .....   | 46.66  |
| <i>remus</i> Curran, 1941, <i>Microdon</i> .....   | 46.66  |
| <i>reynoldsi</i> Shannon & Aubertin, 1933, <i>Dolichogyna</i> .....                              | 46.98  |
| <i>reynoldsi</i> (Shannon & Aubertin), 1933 ( <i>Melanostoma</i> ), <i>Carposcalis</i>           | 46.41  |
| <i>rex</i> (Fluke), 1945 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....                            | 46.44  |
| <i>rhea</i> (Hull), 1949 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                           | 46.54  |
| <i>rhea</i> (Hull), 1950 ( <i>Volucella</i> ), <i>Copestylum</i> .....                           | 46.83  |
| <i>rheochryssus</i> Hull, 1944, <i>Microdon</i> .....  | 46.66  |
| <i>rhina</i> Thompson, <i>Allograpta</i> .....   | 46.37  |
| <i>Rhingia</i> Scopoli, 1763 .....   | 46.69  |
| <i>Rhinoprosopa</i> Hull, 1942 .....   | 46.33  |
| <i>rhodope</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                        | 46.54  |
| <i>Rhoga</i> Walker, 1857 .....  | 46.60  |
| <i>rhombicus, auctorum</i> , <i>Toxomerus</i> .....  | 46.54  |
| <i>rhopalosyrphus</i> Giglio-Tos, 1891 .....   | 46.60  |
| <i>Rhysops</i> Williston, 1907 .....   | 46.42  |
| <i>ribesii, auctorum</i> , <i>Syrphus</i> .....  | 46.8   |
| <i>rica</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....                         | 46.75  |
| <i>ricus</i> (Curran), 1939 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                            | 46.26  |
| <i>rieseli</i> Shannon, 1927, <i>Quichuana</i> .....   | 46.99  |
| <i>rileyi</i> (Williston), 1887 ( <i>Doliosyrphus</i> ), <i>Palpada</i> .....                    | 46.109 |
| <i>robinsoniana</i> Enderlein, 1940, <i>Allograpta</i> .....                                     | 46.37  |
| <i>robursoris</i> (Fluke), 1942 ( <i>Epistrophe</i> ), <i>Allograpta</i> .....                   | 46.37  |

|   |        |
|---|--------|
| <i>robusta</i> Sack, 1941 (Cerioides) .....                                 | 46.95  |
| <i>robustum</i> (Sack), 1941 (Temnocera), <i>Copestylum</i> .....           | 46.83  |
| <i>roederii</i> (Williston), 1888 (Ceria), <i>Sphiximorpha</i> .....        | 46.94  |
| <i>Romaloesyrrhus</i> Bigot, 1882 .....                                     | 46.118 |
| <i>rombicus</i> (Giglio-Tos) 1892 (Mesogramma), <i>Toxomerus</i> .....      | 46.54  |
| <i>rondanii</i> Goot, 1964 (Syrphus) .....                                  | 46.39  |
| <i>rondanii</i> (Shannon), 1926 (Planes), <i>Neplas</i> .....               | 46.115 |
| <i>roraima</i> (Curran), 1939 (Volucella), <i>Copestylum</i> .....          | 46.83  |
| <i>rosa</i> (Curran), 1939 (Volucella), <i>Copestylum</i> .....             | 46.83  |
| <i>respigliosii</i> (Brèthes), 1920 (Volucella), <i>Copestylum</i> .....    | 46.83  |
| <i>rostrata</i> (Bigot), 1884 (Sphaerophoria), <i>Allograpta</i> .....      | 46.37  |
| <i>rostrata</i> (Macquart), 1846 (Helophilus), <i>Dolichogyna</i> .....     | 46.98  |
| <i>rubiceps</i> Philippi, 1865, <i>Stilbosoma</i> .....                     | 46.121 |
| <i>rubicunda</i> Curran, 1940, <i>Mallota</i> .....                         | 46.100 |
| <i>rubida</i> (Williston), 1891 (Baccha), <i>Leucopodella</i> .....         | 46.47  |
| <i>rubicornis</i> Philippi, 1865, <i>Tropidia</i> .....                     | 46.120 |
| <i>rubricosus</i> (Wiedemann), 1830 (Syrphus), <i>Ocyptamus</i> .....       | 46.26  |
| <i>rubriventris</i> Lynch Arribálzaga, 1891, <i>Microdon</i> .....          | 46.66  |
| <i>rubrobrunnea</i> (Hull), 1944 (Cerioides), <i>Sphiximorpha</i> .....     | 46.94  |
| <i>rudis</i> Hull, 1944, <i>Ceriogaster</i> .....                           | 46.116 |
| <i>rufibasis</i> (Bigot), 1883 (Sphiximorpha), <i>Polybiomyia</i> .....     | 46.95  |
| <i>ruficauda</i> (Shannon), 1927 (Valdivia), <i>Valdiviomyia</i> .....      | 46.118 |
| <i>ruficaudatus</i> Bigot, 1884 (Paragus), <i>Toxomerus</i> .....           | 46.54  |
| <i>ruficeps</i> (Macquart), 1842 (Eristalis), <i>Palpada</i> .....          | 46.108 |
| <i>ruficeps</i> Williston, 1886, <i>Stilbosoma</i> .....                    | 46.121 |
| <i>ruficrus</i> (Wiedemann), 1830 (Milesia), <i>Meromacrus</i> .....        | 46.113 |
| <i>rufifacies</i> (Doesburg), 1966 (Baccha), <i>Ocyptamus</i> .....         | 46.17  |
| <i>rufipedes</i> Thompson, <i>Palpada</i> .....                             | 46.108 |
| <i>rufipes</i> (Macquart), 1842 (Eristalis), <i>Palpada</i> .....           | 46.108 |
| <i>rufipes</i> Williston, 1892, <i>Xylota</i> .....                         | 46.114 |
| <i>rufitarse</i> Thompson, <i>Copestylum</i> .....                          | 46.83  |
| <i>rufitarsis</i> (Macquart), 1855 (Eristalis), <i>Palpada</i> .....        | 46.105 |
| <i>rufiventris</i> Bigot, 1883, <i>Ocyptamus</i> .....                      | 46.26  |
| <i>rufiventris</i> (Macquart), 1846 (Eristalis), <i>Palpada</i> .....       | 46.108 |
| <i>rufiventris</i> (Rondani), 1848 (Aphritis), <i>Microdon</i> .....        | 46.66  |
| <i>rufocinctus</i> (Curran), 1927 (Mesogramma), <i>Toxomerus</i> .....      | 46.54  |
| <i>rufofemorata</i> Doesburg, 1966, <i>Senogaster</i> .....                 | 46.120 |
| <i>rufoscutata</i> Bigot, 1880, <i>Eristalis</i> .....                      | 46.101 |
| <i>rufoscutellare</i> (Philippi), 1865 (Phalacromyia), <i>Copestylum</i> .. | 46.83  |
| <i>rufoscutellata</i> (Sack), 1921 (Eristalis), <i>Palpada</i> .....        | 46.108 |
| <i>rugonasus</i> , <i>auctorum</i> , <i>Rhysops</i> .....                   | 46.44  |
| <i>rugosifrons</i> (Schiner), 1868 (Baccha), <i>Ocyptamus</i> .....         | 46.26  |
| <i>rugosonassus</i> (Williston), 1891 (Melanostoma), <i>Rhysops</i> .....   | 46.44  |
| <i>rurale</i> (Curran), 1939 (Volucella), <i>Copestylum</i> .....           | 46.83  |
| <i>ryl</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....                    | 46.26  |
| <i>sackenii</i> Williston, 1882, <i>Mallota</i> .....                       | 46.100 |
| <i>sackenii</i> (Williston), 1888 (Ceria), <i>Sphiximorpha</i> .....        | 46.94  |
| <i>sackenis</i> (Bigot), 1880 (Eristalis), <i>Palpada</i> .....             | 46.110 |
| <i>saffrona</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....               | 46.26  |
| <i>sagittiferus</i> (Austen), 1893 (Baccha), <i>Ocyptamus</i> .....         | 46.26  |
| <i>sallaei</i> , ( <i>auctorum</i> ), (Eristalis), <i>Palpada</i> .....     | 46.103 |
| <i>sallei</i> (Giglio-Tos), 1892 (Eristalis), <i>Palpada</i> .....          | 46.103 |
| <i>salpa</i> (Hull), 1944 (Baccha), <i>Ocyptamus</i> .....                  | 46.26  |
| <i>Salpingogaster</i> Schiner, 1868 .....                                   | 46.31  |



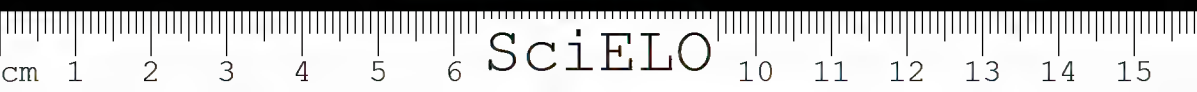


|   |        |
|---|--------|
| saltana Enderlein, 1938, Carposcalis .....                          | 46.41  |
| salti Curran, 1929, Mallota .....                                   | 46.100 |
| salti (Curran), 1930 (Volucella), Copestylum .....                  | 46.84  |
| salti Dobrosky, 1930, Copestylum .....                              | 46.83  |
| saphiridiceps (Bigot), 1884 (Mesograpta?), Toxomerus .....          | 46.54  |
| saphirinum (Bigot), 1883 (Volucella), Copestylum .....              | 46.83  |
| sapphirina Hull, 1951, Neplas .....                                 | 46.115 |
| sapphirina (Shannon & Aubertin), 1933 (Volucella), Copestylum ..... | 46.83  |
| sappho (Hull), 1943 (Baccha), Ocyptamus .....                       | 46.26  |
| sappho (Hull), 1949 (Volucella), Copestylum .....                   | 46.83  |
| sargoides (Macquart), 1850 (Syrphus), Ocyptamus .....               | 46.27  |
| Sarolepta Hull, 1941 .....  | 46.89  |
| sartocrypta Hull, 1954, Mixogaster .....                            | 46.59  |
| sativus (Curran), 1941 (Baccha), Ocyptamus .....                    | 46.27  |
| satyrus (Hull), 1943 (Baccha), Ocyptamus .....                      | 46.27  |
| saussurii (Giglio-Tos), 1892 (Syrphus), Allograpta .....            | 46.37  |
| Scaeva Fabricius, 1805 .....  | 46.9   |
| schildi (Shannon), 1926 (Planes), Neplas .....                      | 46.115 |
| schistacea (Williston), 1888 (Eristalis), Palpada .....             | 46.109 |
| Schizoceratomyia Carrera, Lopes & Lane, 1947 .....                  | 46.60  |
| schnablei (Williston), 1892 (Ceria), Polybiomyia .....              | 46.95  |
| schoenemanni Enderlein, 1938, Allograpta .....                      | 46.37  |
| schreiteri Blanchard, 1956, Myolepta .....                          | 46.89  |
| schwarzi Curran, 1935, Copestylum .....                             | 46.83  |
| schwarzi (Curran), 1939 (Baccha), Ocyptamus .....                   | 46.27  |
| schwarzi Shannon, 1925, Polybiomyia .....                           | 46.95  |
| scintillans (Hull), 1943 (Baccha), Ocyptamus .....                  | 46.27  |
| scintillans (Hull), 1946 (Lepidostola), Myolepta .....              | 46.90  |
| scintillans (Hull), 1949 (Volucella), Copestylum .....              | 46.83  |
| seitulus (Williston), 1888 (Melanostoma), Rhysops .....             | 46.44  |
| scitus (Walker), 1857 (Helophilus), Meromacrus .....                | 46.113 |
| scolopus Shannon, 1927, Microdon .....                              | 46.62  |
| scopanthus (Hull), 1944 (Eristalis), Palpada .....                  | 46.109 |
| scutellaris (Fabricius), 1805 (Milesia), Palpada .....              | 46.109 |
| scutellaris Shannon, 1927, Microdon .....                           | 46.62  |
| scutellaris (Walker), 1837 (Paragus), Pseudodoros .....             | 46.11  |
| ?scutellata (Bigot), 1883 (Doliosyrphus), Palpada .....             | 46.109 |
| scutellata Curran, 1934, Ceriogaster .....                          | 46.116 |
| scutellata Hull, 1924, Milesia .....                                | 46.120 |
| scutellata Macquart, 1834, Palpada .....                            | 46.109 |
| scutellata Sack, 1941, Allograpta .....                             | 46.34  |
| scutellata (Williston), 1886 (?Mixogaster), Pseudodoros .....       | 46.11  |
| scutellata (Williston), 1887 (Ceria), Polybiomia .....              | 46.95  |
| scutellatum (Macquart), 1842 (Volucella), Copestylum .....          | 46.83  |
| scutellatum (Williston), 1888 (Apophysophora), Copestylum ..        | 46.85  |
| scutellatus Loew, 1866, Ocyptamus .....                             | 46.27  |
| scutigera (Fluke), 1945 (Melanostoma), Carposcalis .....            | 46.41  |
| seabrai (Papavero), 1962 (Pseudomicrodon), Microdon .....           | 46.66  |
| selectum (Curran), 1939 (Volucella), Copestylum .....               | 46.83  |
| selene (Hull), 1949 (Baccha), Ocyptamus .....                       | 46.27  |
| selva (Hull), 1943 (Mesogramma), Toxomerus .....                    | 46.54  |
| semicirculus (Walker), 1852 (Eristalis), Palpada .....              | 46.109 |
| senicula (Loew), 1866 (Eristalis), Palpada .....                    | 46.103 |
| Senoceria Hull, 1930 .....  | 46.117 |
| Senogaster Macquart, 1834 .....                                     | 46.119 |



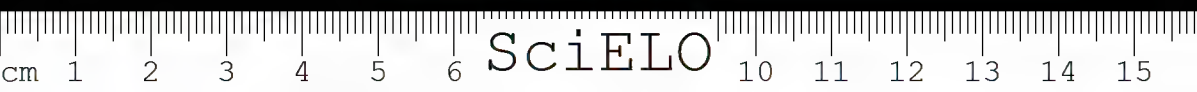


|  |        |
|--|--------|
| <i>sepia</i> (Hull), 1941 (Baccha), <i>Ocyptamus</i> .....                         | 46.27  |
| <i>sepia</i> (Hull), 1943 (Volucella), <i>Copestylum</i> .....                     | 46.84  |
| <i>scpiapennis</i> Hull, 1944, Quichuana .....                                     | 46.99  |
| <i>sepulchrasilvus</i> (Hull), 1937 (Papiliomyia), <i>Microdon</i> .....           | 46.60  |
| <i>sericeus</i> (Walker), 1837 (Pipiza), <i>Ocyptamus</i> .....                    | 46.27  |
| <i>serpentinus</i> (Hull), 1950 (Calostigma), <i>Toxomerus</i> .....               | 46.54  |
| <i>Serycomyiini</i> .....  | 46.88  |
| <i>setigera</i> (Osten Sacken), 1877 (Temnocera), <i>Copestylum</i> .....          | 46.77  |
| <i>sexguttata</i> (Wulp), 1882 (Syrphus), <i>Scaeva</i> .....                      | 46.9   |
| <i>sexmaculata</i> (Macquart), 1850 (Syrphus), <i>Scaeva</i> .....                 | 46.9   |
| <i>sexmaculatum</i> (Palisot de Beauvois), 1819 (Syrphus), <i>Copestylum</i> ..... | 46.81  |
| <i>sexpunctatum</i> (Loew), 1861 (Volucella), <i>Copestylum</i> .....              | 46.81  |
| <i>sexpunctatum</i> (Loew), 1861 (Volucella), <i>Copestylum</i> .....              | 46.81  |
| <i>shannoni</i> Carrera, Lopes & Lane, 1947, <i>Nausigaster</i> .....              | 46.92  |
| <i>shannoni</i> (Curran), 1925 (Chrysogaster), <i>Orthonevra</i> .....             | 46.91  |
| <i>shannoni</i> (Curran), 1940, <i>Microdon</i> .....                              | 46.66  |
| <i>shannoni</i> Enderlein, 1938, <i>Allograpta</i> .....                           | 46.37  |
| <i>shannoni</i> (Lane & Carrera), 1943 (Cerioides), <i>Sphiximorpha</i> ...        | 46.94  |
| <i>shannoni</i> Thompson, <i>Copestylum</i> .....                                  | 46.84  |
| <i>shorae</i> Fluke, 1950, <i>Syrphus</i> .....                                    | 46.8   |
| <i>shropshirei</i> (Curran), 1930 (Baccha), <i>Ocyptamus</i> .....                 | 46.27  |
| <i>sica</i> (Curran), 1953 (Volucella), <i>Copestylum</i> .....                    | 46.84  |
| <i>signifera</i> (Loew), 1853 (Ceria), <i>Sphiximorpha</i> .....                   | 46.94  |
| <i>signiferus</i> (Austen), 1893 (Baccha), <i>Ocyptamus</i> .....                  | 46.27  |
| <i>silaceus</i> (Austen), 1893 (Baccha), <i>Ocyptamus</i> .....                    | 46.27  |
| <i>simile</i> Giglio-Tos, 1892, <i>Copestylum</i> .....                            | 46.84  |
| <i>similis</i> Blanchard, 1852, <i>Syrphus</i> .....                               | 46.8   |
| <i>similis</i> Curran, 1925, <i>Allograpta</i> .....                               | 46.37  |
| <i>similis</i> Macquart, 1842, <i>Helophilus</i> .....                             | 46.96  |
| <i>similis</i> (Williston), 1888 (Lepidostola), <i>Lepidomyia</i> .....            | 46.89  |
| <i>simillima</i> (Vimmer & Soukup), 1938 (Syrphus), <i>Scaeva</i> .....            | 46.9   |
| <i>simillimus</i> Hull, 1950, <i>Microdon</i> .....                                | 46.62  |
| <i>simonetta</i> Hull, 1946, Quichuana .....                                       | 46.99  |
| <i>simplex</i> (Loew), 1861 (Syrphus), <i>Xanthandrus</i> .....                    | 46.45  |
| <i>simplex</i> (Schiner), 1868 (Plagiocera), <i>Meromacrus</i> .....               | 46.113 |
| <i>simulatus</i> (Curran), 1939 (Baccha), <i>Ocyptamus</i> .....                   | 46.27  |
| <i>sinuatinervis</i> (Macquart), 1850 (Syrphus), <i>Toxomerus</i> .....            | 46.55  |
| <i>skinneri</i> (Johnson), 1903 (Chilosia), <i>Chamaesyrphus</i> .....             | 46.69  |
| <i>skottsbergi</i> Enderlein, 1940, <i>Allograpta</i> .....                        | 46.35  |
| <i>slossonae</i> (Curran), 1930 (Mesogramma), <i>Toxomerus</i> .....               | 46.55  |
| <i>smarti</i> (Curran), 1939 (Baccha), <i>Ocyptamus</i> .....                      | 46.27  |
| <i>smarti</i> (Curran), 1941 (Planes), <i>Neplas</i> .....                         | 46.115 |
| <i>smithae</i> (Thompson), 1965 (Lepidosis), <i>Copestylum</i> .....               | 46.84  |
| <i>smithi</i> (Goot), 1964 (Syrphus), <i>Xanthandrus</i> .....                     | 46.45  |
| <i>smithi</i> Williston, 1892, <i>Mallota</i> .....                                | 46.100 |
| <i>sodomis</i> (Townsend), 1895 (Volucella), <i>Copestylum</i> .....               | 46.78  |
| <i>solennis</i> (Walker), 1852 (Eristalis), <i>Palpada</i> .....                   | 46.109 |
| <i>solitarius</i> Curran, 1930, <i>Microdon</i> .....                              | 46.66  |
| <i>soror</i> (Schiner), 1868 (Mesogramma), <i>Toxomerus</i> .....                  | 46.48  |
| <i>soror</i> (Bigot), 1883 (Phalacromyis), <i>Copestylum</i> .....                 | 46.84  |
| <i>sororcula</i> Williston, 1891, <i>Cheilosia</i> .....                           | 46.69  |
| <i>sororia</i> Williston, 1891, <i>Cheilosia</i> .....                             | 46.69  |
| <i>soukupii</i> (Vimmer & Soukup), 1938 (Volucella) .....                          | 46.84  |
| <i>soulouguensis</i> (Bigot), 1880 (Eristalis), <i>Palpada</i> .....               | 46.110 |
| <i>spatulatus</i> (Giglio-Tos), 1892 (Baccha), <i>Ocyptamus</i> .....              | 46.27  |



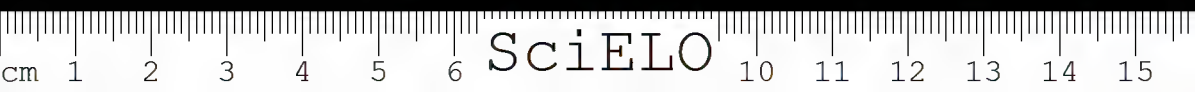
|  |        |
|--|--------|
| <i>spectabilis</i> (Hull), 1925 (Eristalis), Palpada .....                 | 46.109 |
| <i>spectrale</i> (Hull), 1942 (Volucella), Copestylum .....                | 46.84  |
| <i>Sphaerophoria</i> Lepeletier & Serville, 1928 .....                     | 46.38  |
| <i>Sphiximorpha</i> Rondani, 1850 .....                                    | 46.93  |
| <i>Sphyximorpha</i> , auctorum .....                                       | 46.93  |
| <i>Spilomyia</i> Meigen, 1803 .....  | 46.121 |
| <i>spinifemoratus</i> (Hull), 1930 (Senoceria), Sterphus .....             | 46.117 |
| <i>spinigerum</i> (Wiedemann), 1830 (Volucella), Copestylum .....          | 46.84  |
| <i>spinithorax</i> (Lynch Arribáizaga), 1892 (Temnocera), Copestylum ..... | 46.84  |
| <i>spinosa</i> (Shannon), 1925 (Zonemyia), Ceriogaster .....               | 46.116 |
| <i>splendens</i> (Hull), 1949 (Volucella), Copestylum .....                | 46.80  |
| <i>splendens</i> (Thomson), 1869 (Syrphus), Allograpta .....               | 46.37  |
| <i>splendens</i> (Townsend), 1897 (Volucella), Copestylum .....            | 46.84  |
| <i>splendens</i> Wiedemann, 1830, Microdon .....                           | 46.66  |
| <i>squamigerum</i> (Curran, 1925 (Volucella), Copestylum .....             | 46.84  |
| <i>steatogaster</i> (Hull), 1941 (Mesogramma), Toxomerus .....             | 46.55  |
| <i>steatornis</i> (Hull), 1943 (Mesogramma), Toxomerus .....               | 46.55  |
| <i>stegna</i> (Say), 1829 (Syrphus), Carposcalis .....                     | 46.41  |
| <i>stellata</i> (Hull), 1941 (Lepidostola), Lepidomyia .....               | 46.89  |
| <i>Stenogaster</i> Agassiz, 1846 .....                                     | 46.119 |
| <i>stenogaster</i> (Williston), 1888 (Baccha), Ocyptamus .....             | 46.27  |
| <i>stenogaster</i> Williston, 1892, Xylota .....                           | 46.114 |
| <i>sternale</i> (Curran), 1930 (Volucella), Copestylum .....               | 46.84  |
| <i>Sterphus</i> Philippi, 1865 .....                                       | 46.116 |
| <i>Stherphus</i> Fluke, 1957 .....   | 46.116 |
| <i>stigmatica</i> (Hull), 1944 (Eristalis), Palpada .....                  | 46.107 |
| <i>stigmatipennis</i> Hull, 1940, Salpingogaster .....                     | 46.32  |
| <i>stigmatum</i> (Hull), 1949 (Volucella), Copestylum .....                | 46.84  |
| <i>Stilbosoma</i> Philippi, 1865 .....                                     | 46.121 |
| <i>stipa</i> (Hull), 1949 (Baccha), Ocyptamus .....                        | 46.28  |
| <i>stipator</i> Osten-Sacken, 1877, Eristalis .....                        | 46.102 |
| <i>Stipomorpha</i> Hull, 1945 .....  | 46.61  |
| <i>stolo</i> (Walker), 1852 (Syrphus), Ocyptamus .....                     | 46.28  |
| <i>stramineus</i> Hull, 1943, Microdon .....                               | 46.67  |
| <i>striatus</i> (Walker), 1852 (Ascia), Ocyptamus .....                    | 46.28  |
| <i>strictor</i> Hull, 1941, Mixogaster .....                               | 46.59  |
| <i>strigifacies</i> (Enderlein), 1938 (Fazia), Allograpta .....            | 46.37  |
| <i>strigulus</i> Hull, 1942, Meromacrus .....                              | 46.113 |
| <i>Styxia</i> Hull, 1943 .....   | 46.11  |
| <i>subannulatus</i> (Loew), 1865 (Mesograpta), Toxomerus .....             | 46.55  |
| <i>subchalybeus</i> (Walker), 1857 (Syrphus), Ocyptamus .....              | 46.28  |
| <i>subcoeruleum</i> (Rondani), 1863 (Phalacromyia), Copestylum ...         | 46.84  |
| <i>subcostalis</i> (Walker), 1860 (Xylota), Quichuana .....                | 46.99  |
| <i>sublatum</i> (Fluke), 1950 (Volucella), Copestylum .....                | 46.84  |
| <i>submetallicum</i> (Rondani), 1848 (Phalacromyia), Copestylum ...        | 46.85  |
| <i>subrostratum</i> (Rondani), 1848 (Phalacromyia), Copestylum .....       | 46.85  |
| <i>sulphuripes</i> (Thomson), 1869 (Syrphus), Sphaerophoria .....          | 46.38  |
| <i>sultzi</i> (Curran), 1939 (Volucella), Copestylum .....                 | 46.85  |
| <i>sumichrasti</i> (Giglio-Tos), 1893 (Eristalis), Palpada .....           | 46.110 |
| <i>sumischarasti</i> (Giglio-Tos), 1892 (Eristalis), Palpada .....         | 46.110 |
| <i>summus</i> (Fluke), 1936 (Baccha), Ocyptamus .....                      | 46.28  |
| <i>superba</i> (Williston), 1887 (Ceria), Sphiximorpha .....               | 46.94  |
| <i>superbus</i> Wiedemann, 1830, Microdon .....                            | 46.67  |
| <i>surinamensis</i> (Degeer), 1776 (Musca), Palpada .....                  | 46.110 |
| <i>surinamensis</i> (Macquart), 1842 (Eristalis), Palpada .....            | 46.105 |

|   |        |
|---|--------|
| <i>surphica</i> , Fluke, 1956, <i>Allograpta</i> .....                                | 46.37  |
| <i>susio</i> (Hull), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                   | 46.28  |
| <i>syceorax</i> (Hull), 1947 ( <i>Rhinoprosopa</i> ), <i>Allograpta</i> .....         | 46.37  |
| <i>sylphus</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....             | 46.52  |
| <i>sylvaticus</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....          | 46.55  |
| <i>sylvicola</i> Knab, 1913, <i>Quichuana</i> .....                                   | 46.99  |
| <i>Syritta</i> Lepeletier & Serville, 1828 .....                                      | 46.119 |
| <i>syrphica</i> (Giglio-Tos), 1892 ( <i>Sphaerophoria</i> ), <i>Allograpta</i> .....  | 46.37  |
| <i>Syrphipogon</i> Hull, 1937 .....   | 46.59  |
| <i>Syrphinae</i> .....  | 46.8   |
| <i>Syrphini</i> .....   | 46.8   |
| <i>Syrphus</i> Fabricius, 1775 .....  | 46.8   |
| <i>Tachinosyrphus</i> Hull, 1936 .....  | 46.70  |
| <i>taenia</i> (Wiedemann), 1830 ( <i>Eristalis</i> ), <i>Palpada</i> .....            | 46.109 |
| <i>taenius</i> (Curran), 1930 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....           | 46.55  |
| <i>Talahua</i> Fluke, 1945 .....  | 46.45  |
| <i>tamaulipanum</i> (Townsend), 1898 ( <i>Volucella</i> ), <i>Copestylum</i> .....    | 46.85  |
| <i>tapeta</i> Fluke, 1939, <i>Criorhina</i> .....                                     | 46.119 |
| <i>Tapetomyia</i> Fluke, 1939 .....   | 46.88  |
| <i>tarsalis</i> (Walker), 1837 ( <i>Syrphus</i> ), <i>Ocyptamus</i> .....             | 46.28  |
| <i>tatei</i> (Curran), 1930 ( <i>Eristalis</i> ), <i>Palpada</i> .....                | 46.109 |
| <i>tatei</i> (Curran), 1930 ( <i>Volucella</i> ), <i>Copestylum</i> .....             | 46.85  |
| <i>Tatuomyia</i> Shannon, 1926 .....  | 46.117 |
| <i>tau</i> (Bigot), 1883 ( <i>Volucella</i> ), <i>Copestylum</i> .....                | 46.85  |
| <i>tectiforma</i> Fluke, 1942, <i>Allograpta</i> .....                                | 46.38  |
| <i>teffera</i> (Curran), 1939 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.85  |
| <i>telescopicus</i> (Curran), 1930 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....          | 46.28  |
| <i>teligera</i> Fluke, 1942, <i>Allograpta</i> .....                                  | 46.38  |
| <i>tenax</i> (Linnaeus), 1758 ( <i>Musca</i> ), <i>Eristalis</i> .....                | 46.101 |
| <i>tenebrica</i> (Walker), 1849 ( <i>Merodon</i> ), <i>Palpada</i> .....              | 46.106 |
| <i>tenuicaudus</i> Curran, 1925, <i>Microdon</i> .....                                | 46.62  |
| <i>tenuifrons</i> Curran, 1930, <i>Eristalis</i> .....                                | 46.102 |
| <i>tenuis</i> (Walker), 1852 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.28  |
| <i>testaceicornis</i> (Macquart), 1850 ( <i>Eristalis</i> ), <i>Palpada</i> .....     | 46.109 |
| <i>testaceicornis</i> Macquart, 1850, <i>Syrphus</i> .....                            | 46.8   |
| <i>tsetaceipes</i> Lynch Arribálzaga, 1891, <i>Argentinomyia</i> .....                | 46.57  |
| <i>testaceiscutellata</i> (Macquart), 1850 ( <i>Eristalis</i> ), <i>Palpada</i> ..... | 46.107 |
| <i>testaceum</i> (Rondani), 1848 ( <i>Volucella</i> ), <i>Copestylum</i> .....        | 46.81  |
| <i>testaceum</i> (Wulp), 1891 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.87  |
| <i>Thalamopales</i> Hull, 1949 .....  | 46.111 |
| <i>thalia</i> (Hull), 1942 ( <i>Eristalis</i> ), <i>Palpada</i> .....                 | 46.110 |
| <i>thecla</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                  | 46.28  |
| <i>thecla</i> Hull, 1954, <i>Mixogaster</i> .....                                     | 46.59  |
| <i>Therantha</i> Hull, 1943 .....   | 46.11  |
| <i>thiemei</i> (Enderlein), 1938 ( <i>Braziliana</i> ), <i>Rhysops</i> .....          | 46.44  |
| <i>thoracica</i> (Jaennicke), 1867 ( <i>Eristalis</i> ), <i>Palpada</i> .....         | 46.108 |
| <i>tiara</i> (Curran), 1941 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                 | 46.19  |
| <i>tiarella</i> (Hull), 1944 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                | 46.28  |
| <i>tibiale</i> (Macquart), 1846 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.85  |
| <i>tibiale</i> (Shannon), 1929 ( <i>Volucella</i> ), <i>Copestylum</i> .....          | 46.83  |
| <i>tibialis</i> (Fallén), 1817 ( <i>Pipiza</i> ), <i>Paragus</i> .....                | 46.40  |
| <i>tibicen</i> (Wiedemann), 1830 ( <i>Syrphus</i> ), <i>Toxomerus</i> .....           | 46.55  |
| <i>tigrinus</i> Curran, 1940, <i>Microdon</i> .....                                   | 46.67  |



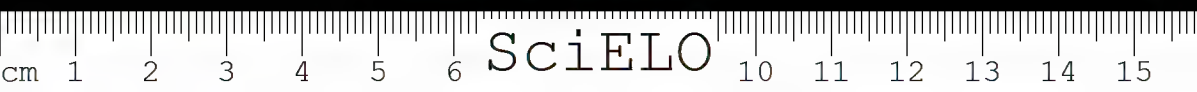


|   |        |
|---|--------|
| <i>timberlakei</i> (Curran), 1926 (Vollucella), Copestylum .....      | 46.85  |
| <i>tinctus</i> (Fluke), 1950 (Crepidomyia), Sterphus .....            | 46.117 |
| <i>titan</i> (Hull), 1947 (Baccha), Ocyptamus .....                   | 46.13  |
| <i>titania</i> (Hull), 1943 (Baccha), Ocyptamus .....                 | 46.28  |
| <i>titillans</i> Hull, 1944, Lycastirrhyncha .....                    | 46.102 |
| <i>toltec</i> (Townsend), 1895 (Volucella), Copestylum .....          | 46.78  |
| <i>tolteca</i> (Townsend), 1895 (Volucella), Copestylum .....         | 46.78  |
| <i>townsendi</i> (Goot), 1964 (Volucella), Copestylum .....           | 46.84  |
| <i>townsendi</i> (Snow), 1895 (Ceria), Polybiomyia .....              | 46.95  |
| <i>Toxomerini</i> .....   | 46.47  |
| <i>Toxomerus</i> Macquart, 1855 .....                                 | 46.47  |
| <i>trabis</i> (Fluke), 1942 (Epistrophe), Ocyptamus .....             | 46.28  |
| <i>transatlanticum</i> (Rondani), 1863 (Volucella), Copestylum .....  | 46.75  |
| <i>transatlanticus</i> (Schiner), 1868 (Baccha), Ocyptamus .....      | 46.28  |
| <i>transversa</i> (Walker), 1857 (Syritta), Ceriogaster .....         | 46.116 |
| <i>transversa</i> (Hine), 1913 (Myiolepta), Ceriogaster .....         | 46.116 |
| <i>transversa</i> (Hull), 1943 (Sphaerophoria), Allograpta .....      | 46.38  |
| <i>travassosi</i> (Lane & Carrera), 1943 (Cerioides), Polybiomyia ... | 46.95  |
| <i>triangularis</i> Curran, 1940, Microdon .....                      | 46.62  |
| <i>triangularis</i> (Giglio-Tos), 1892 (Eristalis), Palpada .....     | 46.110 |
| <i>triangulatus</i> (Hull), 1942 (Mesogramma), Toxomerus .....        | 46.55  |
| <i>tribinincta</i> Enderlein, 1938, Allograpta .....                  | 46.38  |
| <i>trichopoda</i> (Kertész), 1903 (Ceria), Sphiximorpha .....         | 46.94  |
| <i>Trichopsomyia</i> Williston, 1888 .....                            | 46.68  |
| <i>tricinctum</i> (Bigot), 1875 (Volucella), Copestylum .....         | 46.85  |
| <i>tricinctus</i> (Bigot), 1883 (Baccha), Ocyptamus .....             | 46.28  |
| <i>tricinctus</i> (Wulp), 1888 (Baccha), Ocyptamus .....              | 46.30  |
| <i>tricolor</i> (Loew), 1861 (Ceria), Monoceromyia .....              | 46.94  |
| <i>tricolor</i> (Jaennicke), 1867 (Eristalis), Palpada .....          | 46.108 |
| <i>tricrepis</i> (Shannon), 1926 (Crepidomyia), Sterphus .....        | 46.117 |
| <i>tridentatus</i> (Rondani), 1868 (Syrphus), Toxomerus .....         | 46.55  |
| <i>trifasciata</i> Enderlein, 1938, Allograpta .....                  | 46.38  |
| <i>trifasciata</i> (Macquart), 1842 (Eristalis), Palpada .....        | 46.103 |
| <i>trifasciata</i> (Say), 1830 (Eristalis), Palpada .....             | 46.110 |
| <i>trifascium</i> (Walker), 1857 (Temnocera), Copestylum .....        | 46.85  |
| <i>trigona</i> (Williston), 1891 (Eristalis), Palpada .....           | 46.110 |
| <i>trigoniformis</i> Shannon, 1927, Microdon .....                    | 46.62  |
| <i>trigonum</i> (Giglio-Tos), 1892 (Volucella), Copestylum .....      | 46.85  |
| <i>trigonus</i> (Hull), 1937 (Hypselosyrphus), Microdon .....         | 46.62  |
| <i>trigonus</i> (Wiedemann), 1830 (Syrphus), Ocyptamus .....          | 46.19  |
| <i>trilimbata</i> (Bigot), 1888 (Sphaerophoria), Allograpta .....     | 46.38  |
| <i>trilimbata</i> (Giglio-Tos), 1892 (Eristalis), Palpada .....       | 46.110 |
| <i>trilinea</i> Hull, 1943, Microdon .....                            | 46.67  |
| <i>trilineata</i> (Hull), 1941 (Lepidostola), Lepidomyia .....        | 46.89  |
| <i>trilineatus</i> (Enderlein), 1938 (Mesogramma), Toxomerus .....    | 46.55  |
| <i>trilobatus</i> (Bigot), 1884 (Mesograpta?), Toxomerus .....        | 46.55  |
| <i>trilobus</i> (Hull), 1944 (Baccha), Ocyptamus .....                | 46.28  |
| <i>trinidadesis</i> (Curran), 1939 (Baccha), Ocyptamus .....          | 46.28  |
| <i>Triodonta</i> Williston, 1885 .....                                | 46.96  |
| <i>tripunctatum</i> (Hull), 1949 (Volucella), Copestylum .....        | 46.85  |
| <i>triradiatus</i> (Hull), 1942 (Mesogramma), Toxomerus .....         | 46.55  |
| <i>triste</i> (Bigot), 1875 (Volucella), Copestylum .....             | 46.85  |
| <i>tristis</i> (Hull), 1930 (Baccha), Ocyptamus .....                 | 46.29  |
| <i>tristis</i> (Philippi), 1865 (Penium), Pipiza .....                | 46.68  |
| <i>trituberculatum</i> Thompson, Copestylum .....                     | 46.85  |





|  |                |
|--|----------------|
| <i>trivittatus</i> Curran, 1925, <i>Microdon</i> .....                               | 46.67          |
| <i>trochilus</i> Walker, 1852, <i>Microdon</i> .....                                 | 46.63          |
| <i>tropicus</i> (Curran), 1937 ( <i>Melanostoma</i> ), <i>Rhysops</i> .....          | 46.44          |
| <i>Tropidia</i> Meigen, 1822 .....   | 46.120         |
| <i>Tuberculanostoma</i> Fluke, 1943 .....  | 46.45          |
| <i>tuberculata</i> Carrera, Lopes & Lane, 1947, <i>Nausigaster</i> .....             | 46.93          |
| <i>tuberculata</i> Williston, 1888, <i>Trichopsomyia</i> .....                       | 46.68          |
| <i>tuberculatus</i> Rondani, 1857, <i>Eumerus</i> .....                              | 46.92          |
| <i>Tubifera</i> Meigen, 1800 .....   | 46.101         |
| <i>tubularius</i> (Hull), 1942 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....         | 46.55          |
| <i>tucumana</i> Enderlein, 1938, <i>Allograpta</i> .....                             | 46.38          |
| <i>tumicephalum</i> (Hull), 1943 ( <i>Volucella</i> ), <i>Copestylum</i> .....       | 46.85          |
| <i>tympanitis</i> (Fabricius), 1805 ( <i>Syrphus</i> ), <i>Copestylum</i> .....      | 46.85          |
| <i>Ubristes</i> Walker, 1852 .....   | 46.61          |
| <i>ulcana</i> (Enderlein), 1938 ( <i>Pipiza</i> ), <i>Trichopsomyia</i> .....        | 46.68          |
| <i>ulopodus</i> (Hull), 1944 ( <i>Ubristes</i> ), <i>Microdon</i> .....              | 46.62          |
| <i>ulrica</i> (Hull), 1957 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                 | 46.29          |
| <i>ulrica</i> (Hull), 1950 ( <i>Volucella</i> ), <i>Copestylum</i> .....             | 46.86          |
| <i>ultimus</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....            | 46.55          |
| <i>una</i> (Hull), 1943 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....                | 46.55          |
| <i>uncinata</i> Hull, 1945, <i>Salpingogaster</i> .....                              | 46.32          |
| <i>undecimpunctatus</i> (Enderlein), 1938 ( <i>Mitrosphen</i> ), <i>Toxomerus</i> .. | 46.55          |
| <i>unicolor</i> (Curran), 1925 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.86          |
| <i>unicolor</i> Shannon & Aubertin, 1933, <i>Hemixylota</i> .....                    | 46.121         |
| <i>unicolor</i> (Walker), 1837 ( <i>Syrphus</i> ), <i>Carposcalis</i> .....          | 46.41          |
| <i>unicolor</i> (Wulp), 1883 ( <i>Eristalis</i> ), <i>Meromacrus</i> .....           | 46.113         |
| <i>unilectum</i> (Walker), 1860 ( <i>Temnocera</i> ), <i>Copestylum</i> .....        | 46.86          |
| <i>unimaculata</i> Townsend, 1897, <i>Nausigaster</i> .....                          | 46.93          |
| <i>unipunctatum</i> (Curran), 1926 ( <i>Volucella</i> ), <i>Copestylum</i> .....     | 46.86          |
| <i>urania</i> (Hull), 1949 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                 | 46.29          |
| <i>urania</i> Hull, 1949, <i>Salpingogaster</i> .....                                | 46.32          |
| <i>urania</i> Hull, 1949, <i>Trichopsomyia</i> .....                                 | 46.68          |
| <i>uranus</i> (Hull), 1951 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....             | 46.56          |
| <i>urotaenia</i> (Curran), 1930 ( <i>Eristalis</i> ), <i>Palpada</i> .....           | 46.110         |
| <i>ursula</i> (Hull), 1947 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                 | 46.29          |
| <i>ursula</i> Hull, 1949, <i>Quichuana</i> .....                                     | 46.99          |
| <i>uvarum</i> (Walker), 1849 ( <i>Eristalis</i> ), <i>Palpada</i> .....              | 46.110         |
| <i>vacum</i> (Fabricius), 1775 ( <i>Syrphus</i> ), <i>Copestylum</i> .....           | 46.86          |
| <i>vagabondans</i> (Hull), 1941 ( <i>Planes</i> ), <i>Neplas</i> .....               | 46.115         |
| <i>vagans</i> (Wiedemann), 1830 ( <i>Xylota</i> ), <i>Neplas</i> .....               | 46.115         |
| <i>vagoides</i> (Curran), 1927 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.86          |
| <i>vagum</i> (Wiedemann), 1830 ( <i>Volucella</i> ), <i>Copestylum</i> .....         | 46.86          |
| <i>valdesi</i> (Fluke), 1950 ( <i>Mesogramma</i> ), <i>Toxomerus</i> .....           | 46.56          |
| <i>Valdivia</i> Shannon, 1927 .....  | 46.117         |
| <i>valdiviana</i> (Philippi), 1865 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....         | 46.15          |
| <i>valdiviana</i> (Philippi), 1865 ( <i>Ocyptamus</i> ), <i>Valdiviomyia</i> .....   | 46.118         |
| <i>valdiviformis</i> Shannon & Aubertin, 1933, <i>Odyneromyia</i> .....              | 46.117         |
| <i>Valdiviomyia</i> Vockeroth .....  | 46.117, 46.118 |
| <i>valeria</i> (Hull), 1941 ( <i>Planes</i> ), <i>Neplas</i> .....                   | 46.115         |
| <i>valeria</i> (Hull), 1944 ( <i>Volucella</i> ), <i>Copestylum</i> .....            | 46.86          |
| <i>vampyrum</i> (Hull), 1942 ( <i>Volucella</i> ), <i>Copestylum</i> .....           | 46.86          |
| <i>vampyrus</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....               | 46.29          |
| <i>vanda</i> (Hull), 1943 ( <i>Baccha</i> ), <i>Ocyptamus</i> .....                  | 46.29          |



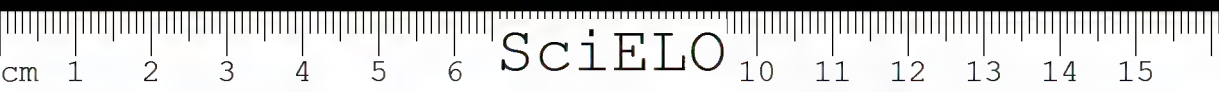
|  |        |
|--|--------|
| vanessa (Hull), 1949 (Baccha), Ocyptamus .....               | 46.29  |
| vanessa (Hull), 1951 (Mesogramma), Toxomerus .....           | 46.56  |
| vanzolinii d'Andretta & Carrera, 1952, Nausigaster .....     | 46.93  |
| varia (Walker), 1849 (Baccha), Pseudodoros .....             | 46.11  |
| variabilis (Kertész), 1903 (Ceria), Sphiximorpha .....       | 46.94  |
| variabilis (Wulp), 1883 (Mesograpt), Toxomerus .....         | 46.48  |
| varians (Bigot), 1875 (Volucella), Copestylum .....          | 46.86  |
| varichaetum (Curran), 1925 (Phalacromyia), Copestylum .....  | 46.86  |
| variegatum (Bigot), 1875 (Volucella), Copestylum .....       | 46.86  |
| variegatus (Macquart), 1842 (Baccha), Ocyptamus .....        | 46.29  |
| varipes Shannon & Aubertin, 1933, Hemixylota .....           | 46.121 |
| vatus (Walker), 1852 (Syrphus), Toxomerus .....              | 46.56  |
| ventana (Fluke), 1951 (Volucella), Copestylum .....          | 46.86  |
| venusta Curran, 1927, Allograpt .....                        | 46.38  |
| vera (Hull), 1942 (Volucella), Copestylum .....              | 46.86  |
| vera (Hull), 1943 (Baccha), Ocyptamus .....                  | 46.29  |
| vera Hull, 1944, Salpingogaster .....                        | 46.32  |
| vera (Hull), 1949 (Eristalis), Palpada .....                 | 46.110 |
| verdigaster (Hull), 1943 (Volucella), Copestylum .....       | 46.86  |
| verona (Curran), 1941 (Baccha), Ocyptamus .....              | 46.29  |
| verralli (Williston), 1892 (Ceria), Monoceromyia .....       | 46.94  |
| vertebratus Rondani, 1863 (Syrphus) .....                    | 46.40  |
| verticalis (Curran), 1927 (Mesogramma), Toxomerus .....      | 46.56  |
| verticallis, Hull, 1943, Toxomerus .....                     | 46.56  |
| vesiculosum (Fabricius), 1805 (Syrphus), Copestylum .....    | 46.80  |
| vespuccius (Hull), 1943 (Baccha), Ocyptamus .....            | 46.29  |
| veve (Hull), 1942 (Mesogramma), Toxomerus .....              | 46.56  |
| vicina (Kertész), 1902 (Ceria), Sphiximorpha .....           | 46.94  |
| vicinum (Bigot), 1883 (Phalacromyia), Copestylum .....       | 46.86  |
| vicinus (Macquart), 1846 (Syrphus), Toxomerus .....          | 46.56  |
| victoria (Hull), 1942 (Baccha), Ocyptamus .....              | 46.29  |
| vierecki (Curran), 1930 (Baccha), Ocyptamus .....            | 46.29  |
| vierecki (Curran), 1930 (Eristalis), Palpada .....           | 46.110 |
| vierecki (Curran), 1930 (Mesogramma), Toxomerus .....        | 46.56  |
| vierecki (Curran), 1925 (Volucella), Copestylum .....        | 46.86  |
| Viereckomyia Curran, 1925 .....                              | 46.70  |
| villarica (Fluke), 1951 (Volucella), Copestylum .....        | 46.86  |
| villosa (Bigot), 1882 (Romaleosyrphus), Criorhina .....      | 46.119 |
| villosus Hull, 1949, Meromacrus .....                        | 46.113 |
| vinetorum (Fabricius), 1798 (Syrphus), Palpada .....         | 46.110 |
| viola (Hull), 1944 (Volucella), Copestylum .....             | 46.86  |
| violacea (Macquart), 1842 (Volucella), Ornidia .....         | 46.70  |
| violaceum (Say), 1830 (Volucella), Copestylum .....          | 46.79  |
| violaceum (Curran), 1930 (Megametopon), Copestylum .....     | 46.74  |
| violaceus (Curran), 1926 (Mesogramma), Toxomerus .....       | 46.56  |
| violaceus (Hull), 1943 (Baccha), Ocyptamus .....             | 46.29  |
| violaceus (Macquart), 1842 (Aphritis), Microdon .....        | 46.67  |
| violens Townsend, 1895, Microdon .....                       | 46.67  |
| virescens (Williston), 1891 (Phalacromyia), Copestylum ..... | 46.86  |
| virga (Fluke), 1942 (Epistrophe), Ocyptamus .....            | 46.29  |
| virgata Austen, 1893, Salpingogaster .....                   | 46.32  |
| virgilio (Hull), 1942 (Baccha), Ocyptamus .....              | 46.29  |
| virginiensis (Drury), 1773 (Musca), Milesia .....            | 46.120 |
| virginio (Hull), 1941 (Baccha), Ocyptamus .....              | 46.29  |
| virgo Curran, 1940, Microdon .....                           | 46.67  |

|   |        |
|---|--------|
| <i>virgulatus</i> (Macquart), 1850 (Syrphus), <i>Toxomerus</i> .....              | 46.56  |
| <i>viridana</i> (Townsend), 1897 (Volucella), <i>Copestylum</i> .....             | 46.86  |
| <i>viride</i> (Williston), 1888 (Volucella), <i>Copestylum</i> .....              | 46.87  |
| <i>viridigaster</i> (Hull), 1943 (Volucella), <i>Copestylum</i> .....             | 46.87  |
| <i>viridis</i> Townsend, 1895, <i>Microdon</i> .....                              | 46.67  |
| <i>viridula</i> (Bigot), 1875 (Volucella), <i>Copestylum</i> .....                | 46.86  |
| <i>viridula</i> (Walker), 1860 (Temnocera), <i>Copestylum</i> .....               | 46.87  |
| <i>virtuosa</i> (Hull), 1942 (Volucella), <i>Copestylum</i> .....                 | 46.87  |
| <i>vitrea</i> (Hull), 1949 (Volucella), <i>Copestylum</i> .....                   | 46.87  |
| <i>vitrescens</i> (Hull), 1930 (Mesogramma), <i>Toxomerus</i> .....               | 46.56  |
| <i>vitreus</i> (Hull), 1941 (Mesogramma), <i>Toxomerus</i> .....                  | 46.56  |
| <i>vitripenne</i> (Curran), 1934 (Volucella), <i>Copestylum</i> .....             | 46.87  |
| <i>vitripennis</i> Meigen, 1822, <i>Syrphus</i> .....                             | 46.8   |
| <i>vittata</i> (Bigot), 1878 (Acrochordonodes), <i>Senogaster</i> .....           | 46.120 |
| <i>vittata</i> (Hull), 1937 (Meromacrus), <i>Habromyia</i> .....                  | 46.101 |
| <i>vittatum</i> Thompson, <i>Copestylum</i> .....                                 | 46.87  |
| <i>vittifacium</i> (Hull), 1943 (Volucella), <i>Copestylum</i> .....              | 46.87  |
| <i>vittiger</i> (Hull), 1949 (Baccha), <i>Ocyptamus</i> .....                     | 46.30  |
| <i>vittipes</i> (Curran), 1941 (Cerioides), <i>Monoceromyia</i> .....             | 46.94  |
| <i>vittithorax</i> (Hull), 1937 (Braziliana), <i>Rhyops</i> .....                 | 46.43  |
| <i>vockerothi</i> Etcheverry, 1966, <i>Flukea</i> .....                           | 46.118 |
| <i>volatica</i> (Williston), 1888 (Eristalis), <i>Palpada</i> .....               | 46.107 |
| <i>volcanus</i> (Fluke), 1942 (Epistrophe), <i>Ocyptamus</i> .....                | 46.30  |
| <i>Voldivia</i> Shannon, 1927 .....   | 46.117 |
| <i>Volosyrpha</i> Shannon, 1929 .....   | 46.70  |
| <i>Volucellini</i> .....  | 46.69  |
| <i>volucelloides</i> (Bigot), 1884 (Glaurotricha), <i>Copestylum</i> .....        | 46.87  |
| <i>Volucellosia</i> Curran, 1930 .....  | 46.70  |
| <i>volucre</i> (Giglio-Tos), 1892 (Volucella), <i>Copestylum</i> .....            | 46.87  |
| <i>volucris</i> Osten Sacken, 1877, <i>Eupeodes</i> .....                         | 46.9   |
| <i>vulcan</i> (Hull), 1942 (Volucella), <i>Copestylum</i> .....                   | 46.87  |
| <i>vilpina</i> Sack, 1941, <i>Mallota</i> .....                                   | 46.100 |
| <i>vulta</i> (Fluke), 1951 (Volucella), <i>Copestylum</i> .....                   | 46.87  |
| <i>vulturis</i> (Hull), 1942 (Mesogramma), <i>Toxomerus</i> .....                 | 46.56  |
| <i>vulturella</i> (Hull), 1947 (Lepidostola), <i>Lepidomyia</i> .....             | 46.89  |
| <i>walkeri</i> (Lynch Arribáizaga), 1892 (Syrphus), <i>Carposcalis</i> .....      | 46.41  |
| <i>watsoni</i> (Curran), 1930 (Mesogramma), <i>Toxomerus</i> .....                | 46.56  |
| <i>watsoni</i> (Curran), 1930 (Volucella), <i>Copestylum</i> .....                | 46.82  |
| <i>wheeleri</i> Mann, 1928, <i>Microdon</i> .....                                 | 46.62  |
| <i>wiedemanni</i> Enderlein, 1938, <i>Ocyptamus</i> .....                         | 46.30  |
| <i>wiedemanni</i> (Johnson), 1919 (Syrphus), <i>Metasyrphus</i> .....             | 46.9   |
| <i>wilhelmina</i> (Doesburg), 1963 (Baccha), <i>Ocyptamus</i> .....               | 46.30  |
| <i>willinki</i> (Fluke), 1951 (Volucella), <i>Copestylum</i> .....                | 46.87  |
| <i>willistoni</i> Coquillett, 1902, <i>Lycastirrhyncha</i> .....                  | 46.102 |
| <i>willistoni</i> Fluke, 1942, <i>Syrphus</i> .....                               | 46.8   |
| <i>willistoni</i> (Giglio-Tos), 1893 (Sphaerophoria), <i>Allograpta</i> .....     | 46.38  |
| <i>willistoni</i> (Goot), 1964 (Heliophilus), <i>Xylota</i> .....                 | 46.114 |
| <i>willistoni</i> Hull, 1949, <i>Cacoceria</i> .....                              | 46.91  |
| <i>willistoni</i> Mik, 1899, <i>Microdon</i> .....                                | 46.67  |
| <i>willistoni</i> (Shannon), 1926 (Planes), <i>Neplas</i> .....                   | 46.115 |
| <i>willistoni</i> (Snow), 1895 (Pelecocera), <i>Chamaesyrphus</i> .....           | 46.69  |
| <i>willistoni</i> Thompson, <i>Ocyptamus</i> .....                                | 46.30  |
| <i>willistoni</i> (Townsend), 1895 (Eristalis), <i>Palpada</i> .....              | 46.103 |
| <i>willistonii</i> (Lynch Arribáizaga), 1892 (Mesogramma), <i>Toxomerus</i> ..... | 46.56  |



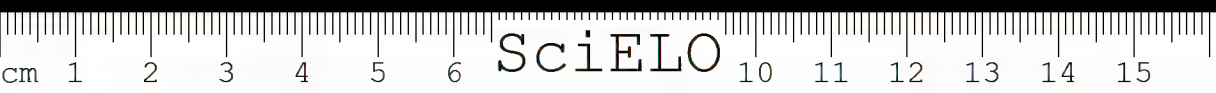


|   |        |
|---|--------|
| <i>Willistonimyia</i> Hull, 1943 .....                                      | 46.117 |
| <i>wulpianus</i> (Lynch Arribáizaga), 1891 (Baccha), <i>Ocyptamus</i> ...   | 46.30  |
| <i>wulpi</i> (Goot), 1964 (Volucella), <i>Copestylum</i> .....              | 46.87  |
| <i>wulpil</i> (Williston), 1888 (Ceria), <i>Sphiximorpha</i> .....          | 46.94  |
| <i>Xanthandrus</i> Verrall, 1901 .....                                      | 46.44  |
| <i>xanthaspis</i> (Wiedemann), 1830 (Eristalis), <i>Palpada</i> .....       | 46.105 |
| <i>xanthoprosopus</i> (Barretto & Lane), 1947 (Rhoga), <i>Microdon</i> .... | 46.60  |
| <i>xanthopterus</i> (Wiedemann), 1830 (Syrphus), <i>Ocyptamus</i> .....     | 46.30  |
| <i>xantippe</i> (Hull), 1949 (Baccha), <i>Ocyptamus</i> .....               | 46.30  |
| <i>Xestoprosopa</i> Hull, 1949 .....  | 46.46  |
| <i>xipe</i> (Hull), 1942 (Volucella), <i>Copestylum</i> .....               | 46.87  |
| <i>Xylota</i> Meigen, 1822 .....  | 46.113 |
| <i>xylotaeformis</i> (Schiner), 1868 (Mallota), <i>Habromyia</i> .....      | 46.101 |
| <i>Xylotaeja</i> Rondani, 1845 .....  | 46.89  |
| <i>yura</i> (Curran), 1930 (Volucella), <i>Copestylum</i> .....             | 46.87  |
| <i>zabulon</i> (Hull), 1949 (Baccha), <i>Ocyptamus</i> .....                | 46.30  |
| <i>Zelima</i> Meigen, 1800 .....  | 46.113 |
| <i>zenia</i> (Curran), 1941 (Baccha), <i>Ocyptamus</i> .....                | 46.30  |
| <i>zenilla</i> (Hull), 1943 (Baccha), <i>Leucopodella</i> .....             | 46.47  |
| <i>zenillia</i> (Curran), 1941 (Baccha), <i>Ocyptamus</i> .....             | 46.30  |
| <i>zephyra</i> (Curran), 1939 (Volucella) <i>Copestylum</i> .....           | 46.87  |
| <i>zephyreus</i> (Hull), 1947 (Baccha), <i>Ocyptamus</i> .....              | 46.30  |
| <i>zerene</i> (Hull), 1949 (Baccha), <i>Ocyptamus</i> .....                 | 46.30  |
| <i>zeteki</i> (Curran), 1930 (Baccha), <i>Ocyptamus</i> .....               | 46.30  |
| <i>zilla</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....                  | 46.30  |
| <i>zinnia</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....                 | 46.30  |
| <i>zita</i> (Curran), 1941 (Baccha), <i>Ocyptamus</i> .....                 | 46.30  |
| <i>zobeide</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....                | 46.31  |
| <i>zonatus</i> (Loew), 1866 (Pteroptila), <i>Meromacrus</i> .....           | 46.113 |
| <i>Zonemyia</i> Shannon, 1925 .....   | 46.115 |
| <i>zoroaster</i> (Hull), 1943 (Baccha), <i>Ocyptamus</i> .....              | 46.31  |





Edanee - Imprimiu  
São Paulo - Brasil



MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(Formerly Departamento de Zoologia, Secretaria da Agricultura,  
São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

47

FAMILY CONOPIDAE

NELSON PAPAVERO

*Museu de Zoologia, Universidade de São Paulo*  
*São Paulo, Brasil*

A moderately large family of internal parasites, especially of Hymenoptera, represented in the Neotropics by 14 genera and 175 species. Many species still remain to be described, especially in the genus *Stylogaster*, and most groups still need a thorough revision. The biology of the group has been investigated by Rettenmeyer (1961), and Stuckenberg (1963). Previous catalogues were published by Kröber (1919) and Aczél (1950), but are now seriously out of date, especially after the publications of Camras (1953-1967), who has contributed more extensively to the knowledge of the Neotropical fauna. The suprageneric categories have been dealt with by Zimina (1960).

Subfamily CONOPINAE

Ref. — Camras, 1955a (key to genera and subgenera).

Tribe CONOPINI

Genus CONOPS Linnaeus

CONOPS Linnaeus, 1758:604. Type-species, *flavipes* Linnaeus (Curtis, 1831: pl. 377).

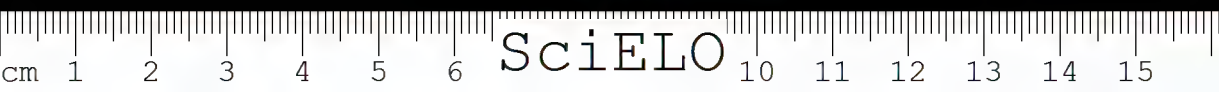
Ref. — Camras, 1955a:156 (rev.).

Subgenus ASICONOPS Chen

*Conops*, subg. ASICONOPS Chen, 1939:170. Type-species, *aureomaculatus* Kröber (orig. des.).

BERMUDENSIS Parsons, 1940:28, fig. 3 (abdomen). Type-locality: "Bermuda". Distr. — Bermudas.

47.1



### Subgenus CERATOCONOPS Camras

*Conops*, subg. CERATOCONOPS Camras, 1955a:159. Type-species, *ornatus* Williston (orig. des.).

ORNATUS Williston, 1892b:46. Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Brazil (Mato Grosso).

### Subgenus CONOPS Linnaeus

?PRUINOSUS Bigot, 1857:46. Type-locality: "South America". Distr. — unknown.

VERUS Camras, 1955a:157. Type-locality: Brazil, São Paulo, Rio Claro. Distr. — Brazil (São Paulo).

### Subgenus DICONOPS Camras

*Conops*, subg. DICONOPS Camras, 1957a:9. Type-species, *trichus* Camras (orig. des.).

GEMINATUS Camras, 1957a:10. Type-locality: Peru, Huánuco, Tingo Maria, Monsón Valley. Distr. — Peru (Huanuco).

TRICHUS Camras, 1957a:9. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).

### Subgenus SPHENOCONOPS Camras

*Conops*, subg. SPHENOCONOPS Camras, 1955a:159. Type-species, *nobilis* Williston (orig. des.).

BRUNNEOSERICEUS Kröber, 1937:100. Type-locality: Brazil, Santa Catarina, Nova Bremen, Rio Laeiss. Distr. — Brazil (Rio de Janeiro to Santa Catarina).

NOBILIS Williston, 1892b:45. Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Mexico, Costa Rica, Bolivia, Brazil (Mato Grosso).

*sericeus* Walker, 1852:256 (preocc. Olivier, 1791). Type-locality: Brazil, "Amazon River".

*argentifacies* Williston, 1892b:43 (in key). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães].

*palliditarsis* Kröber, 1927:134, fig. 9 (antenna, genitalia). Type-locality: Costa Rica, San José, La Caja.

VELUTINUS Kröber, 1915c:146. Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).

### Genus MALLOCHOCONOPS Camras

MALLOCHOCONOPS Camras, 1955a:160. Type-species, *Conops atratulus* Malloch (orig. des.).

ATRATULUS (Malloch), 1933:173 (*Conops*). Type-locality: Chile, Llanquihue, Casa Pangué. Distr. — Chile.

## Genus PHYSOCONOPS Szilády

PHYSOCONOPS Szilády, 1926:588. Type-species, *Conops brachyrrhynchus* Macquart (orig. des.; misident.) = *obscuripennis* (Williston).  
Ref. — Camras, 1955a:161 (rev.).

## Sugenus ACONOPS Kröber

ACONOPS Kröber, 1917:142 (as genus). Type-species, *Conops antennatus* Kröber (Camras, 1955a:173).

ANTENNATUS (Kröber), 1915c:150 (*Conops*). Type-locality: Argentina, Mendoza. Distr. — Brazil (Bahia), Argentina (Mendoza).

*syrrhoides* Blanchard, 1938:351 (*Aconops*). Type-locality: Argentina, Mendoza.

COSTATUS (Fabricius), 1805:175 (*Conops*). Type-locality: "South America". Distr. — Colombia, Surinam, Brazil (Bahia).

LONGISTYLUS (Kröber), 1915c:149 (*Conops*). Type-locality: Brazil, Minas Gerais, São João del Rei. Distr. — Mexico (Guerrero), Nicaragua, Costa Rica, south to Brazil (Santa Catarina).

## Sugbenus GYROCONOPS Camras

*Physoconops*, subg. GYROCONOPS Camras, 1955a:174. Type-species, *Conops sylvosus* Williston (orig. des.).

ABBREVIATUS Camras, 1955a:174. Type-locality: Mexico, Guerrero, Xucumanatlán, 7000 feet. Distr. — Mexico (Guerrero).

PARVUS (Williston), 1892b:46 (*Conops*). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Mexico to Brazil (Mato Grosso and Santa Catarina).

*ocellatus* Giglio-Tos, 1892:4 (*Conops*). Type-locality: "Mexico". [Giglio-Tos himself (1893:67) considered this a synonym of *parvus* Williston].

SYLVOSUS (Williston), 1882:329 (*Conops*). Type-locality: U.S.A., Massachusetts and Connecticut. Distr. — U.S.A., Mexico.

*arizonicus* Banks, 1916:191 (*Conops*). Type-locality: U.S.A., Arizona.

## Subgenus KROEBEROCONOPS Camras

*Physoconops*, subg. KROEBEROCONOPS Camras, 1955a:175. Type-species, *Conops hermanni* Kröber (orig. des.).

HERMANNI (Kröber), 1915c:145 (*Conops*). Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).

*perbellum* Kröber, 1939:467. Type-locality: Argentina, Buenos Aires.

RUFIPENNIS (Macquart), 1843:167 (1843:10) (*Conops*). Type-locality: "Brazil" (Camras, 1955a:176). Distr. — ?Costa Rica, Puerto Rico, Brazil, Uruguay, Argentina.



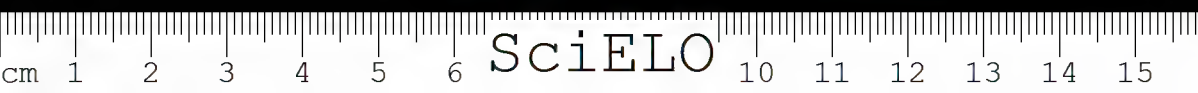
# Subgenus PACHYCONOPS Camras

- Physoconops*, subg. PACHYCONOPS Camras, 1955a:161. Type-species, *Conops bulbirostris* Loew (orig. des.).
- BAHAMENSIS Parsons, 1940:29, figs. 8-9 (antenna, abdomen). Type-locality: Bahamas, Eleuthera I. Distr. — Bahamas (Eleuthera, Bimini and Long Is.).
- BRACHYRRHYNCHUS (Macquart), 1843:172 (1843:15) (*Conops*). Type-locality: "South America". Distr. — U.S.A., Mexico, Colombia.
- xanthopareus* Williston, 1882:332 (*Conops*). Type-locality: U.S.A., Texas.
- xanthostomus* Banks, 1916:200, error.
- fenestratus* Kröber, 1915c:134 (*Conops*). Type-locality: U.S.A., Nebraska, Lincoln.
- BULBIROSTRIS (Loew), 1853:30 (*Conops*). Type-locality: "North America" (Osten Sacken, 1878:140). Distr. — U.S.A., mainland south to Paraguay.
- CONNECTENS Camras, 1955a:169. Type-locality: Guatemala, Rabinal, 3000 feet. Distr. — Mexico, Guatemala.
- COSTARICENSIS (Kröber), 1927:135, fig. 10 (antenna, abdomen) (*Conops*). Type-locality: Costa Rica, San José, Farm La Caja. Distr. — Costa Rica, Panama.
- ?CRUDUS (Walker), 1849:671 (*Conops*). Type-locality: unknown. Distr. — unknown.
- CUBANUS Parsons, 1940:28, figs. 6-7 (antenna, abdomen). Type-locality: Cuba, Cienfuegos, Guabairo, about 4 mi. N. of Soledad. Distr. — Cuba.
- GRACILIANUS Camras, 1955a:165. Type-locality: Mexico, Morelos, Cuernavaca. Distr. — Mexico (Morelos).
- GRACILIOR (Kröber), 1915c:150 (*Conops*). Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Brazil (Santa Catarina), Paraguay.
- GRACILIS (Williston), 1885:377 (*Conops*). Type-locality: U.S.A., Arizona. Distr. — U.S.A., Mexico, Colombia.
- GRANDIS (Williston), 1892b:44 (*Conops*). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Brazil (Mato Grosso).
- GUIANICUS (Curran), 1934:417 (*Conops*). Type-locality: Guyana, Bartica, Kartabo. Distr. — Colombia, Guyana, Venezuela, Peru, Brazil (Mato Grosso, Goiás).
- guyanicus* Aczél, 1950:56, error.
- MAGNUS (Williston), 1892b:43 (*Conops*). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Brazil (Mato Grosso).
- PALLIFRONS (Coquillett), 1904:92 (*Conops*). Type-locality: Nicaragua, Chinandega and San Marcos; Mexico, Veracruz, San Rafael. Distr. — Mexico, Nicaragua.
- pallifrons*, authors, error.
- PALIPES (Eymelt), 1942:53, fig. 1 (antenna) (*Aconops*). Type-locality: Brazil, Espírito Santo, Alegre. Distr. — Brazil (Espírito Santo).

- PARSONSI Camras, 1955a:171. Type-locality: Cuba, Trinidad Mountains, Buenos Aires. Distr. — Cuba.
- PICTIFRONS (Kröber), 1915c:133 (*Conops*). Type-locality: Mexico, Orizaba. Distr. — Mexico to Panama.
- PICTUS (Fabricius), 1794:391 (*Conops*). Type-locality: "Americae Insulis" (= West Indies). Distr. — Cuba, Haiti, Puerto Rico.
- RAMONDI (Bigot), in Sagra, 1857:808 (*Conops*). Type-locality: "Cuba". Distr. — Cuba.
- RUFUS (Williston), 1892b:44 (*Conops*). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Brazil (Mato Grosso, São Paulo), ?Chile.
- SHANNONI Camras, 1955a:162. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso).
- TRAVASSOSI Camras, 1955a:168. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso, Goiás, Rio de Janeiro São Paulo).

#### Subgenus *PHYSOCONOPS* Szilády

- ABRUPTUS (Kröber), 1915c:144 (*Conops*). Type-locality: Argentina, Mendoza. Distr. — Brazil (Mato Grosso, Santa Catarina), Paraguay, Argentina (Mendoza).
- ANALIS (Fabricius), 1805:175 (*Conops*). Type-locality: "South America". Distr. — U.S.A. to Paraguay.  
*angustifrons* Williston, 1892b:44 (*Conops*). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães].  
*pulvillus* Eymelt, 1942:54, fig. 2 (whole insect). Type-locality: Brazil. São Paulo, Rio Preto.  
*pulvillatus* Aczél, 1950:61, error.
- ANGUSTUS (Kröber), 1915c:152 (*Conops*). Type-locality: Argentina, Mendoza. Distr. — Brazil (Santa Catarina), Argentina (Mendoza).
- ANTHREAS (Williston), 1892a:80 (*Conops*). Type-locality: Mexico, Veracruz, Atoyac. Distr. — Mexico (Veracruz).  
*mexicanus* Kröber, 1915c:128 (*Conops*). Type-locality: Mexico, Orizaba.
- ATROFEMORUS Camras, 1963:824 Type-locality: Bahamas, Crooked Island, Landrail Point. Distr. — Bahamas (Crooked Is.).
- AUREOSCUTELLATUS (Kröber), 1937:96, fig. 1 (antenna, abdomen) (*Conops*). Type-locality: "Costa Rica". Distr. — Costa Rica.
- DISCALIS (Williston), 1892a:80 (*Conops*). Type-locality: Mexico, Tabasco, Teapa. Distr. — U.S.A., Mexico, south to Argentina and Paraguay.  
*formosus* Kröber, 1915c:124 (*Conops*). Type-locality: "Mexico".  
*semifuscus* Banks, 1916:192 (*Conops*; as *brachyrrhynchus* var.). Type-locality: U.S.A., New Mexico, Jemez Springs.
- FRONTO (Williston), 1885:378 (*Conops*). Type-locality: U.S.A., western Kansas. Distr. — U.S.A., Mexico.  
*pulchellus* Kröber, 1915c:134 (*Conops*). Type-locality: U.S.A., South Carolina.



- argentifacies* Van Duzee, 1927:547 (*Conops*). Type-locality: U.S.A., Idaho, Lewiston.
- fraterculus* Van Duzee, 1927:575 (*Conops*). Type-locality: U.S.A., Idaho, Lewiston.
- rubicundulus* Van Duzee, 1927:576 (*Conops*). Type-locality: U.S.A., Idaho, Lewiston.
- GILMOREI Camras, 1955a:176. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso, Goiás), Paraguay.
- INFUSCATUS Camras, 1955a:179. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso to São Paulo, Santa Catarina).
- INORNATUS (Williston), 1892b:45 (*Conops*). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Brazil (Mato Grosso).
- NIGROMARGINATUS (Kröber), 1915c:151 (*Conops*). Type-locality: Bolivia, La Paz: Mapiri and San Ernesto. Distr. — Mexico, Bolivia, Brazil (Pará to Goiás and Rio de Janeiro).
- NITENS Camras, 1955a:181. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso, Santa Catarina).
- OBSCURIPENNIS (Williston), 1882:328 (*Conops*). Type-locality: U.S.A., Virginia, South Carolina, Georgia and Massachusetts. Distr. — U.S.A., Mexico.
- foxi* Van Duzee, 1927:574 (*Conops*). Type-locality: U.S.A., Washington, Pullman.
- brachyrrhynchus*, authors, not Macquart.
- ORNATIFRONS (Kröber), 1915c:148 (*Conops*). Type-locality: Peru, Sullana. Distr. — Venezuela, Peru, Brazil (Mato Grosso to Santa Catarina).
- PERUVIANUS Camras, 1955a:178. Type-locality: Peru, Pucallpa. Distr. — Peru.
- VARIPES (Kröber), 1915c:153 (*Conops*; as *angustus* var.). Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Paraguay.

#### Subgenus SHANNONOCONOPS Camras

- Physoconops*, subg. SHANNONOCONOPS Camras, 1955a:172. Type-species, *apicalis* Camras (orig. des.).
- APICALIS Camras, 1955a:172. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Peru, Brazil (Mato Grosso).

#### Tribe TROPIDOMYIINI

#### Genus TROPIDOMYIA Williston

- TROPIDOMYIA Williston, 1888:11. Type-species, *bimaculata* Williston (mon.). Ref. — Camras, 1955b (key).
- ALEXANDERI Camras, 1955b:119. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso, Goiás, São Paulo), Paraguay.

BIMACULATA Williston, 1888:11. Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães]. Distr. — Mexico (Guerrero), Brazil (Mato Grosso).

### Tribe PHYSOCEPHALINI

#### Genus PHYSOCEPHALA Schiner

PHYSOCEPHALA Schiner, 1861:137. Type-species, *Conops rufipes* Fabricius (orig. des.).

Ref. — Camras, 1957b (key to species).

BICOLOR Kröber, 1915b:136. Type-locality: Brazil, Mato Grosso. Distr. — Brazil (Mato Grosso).

IMPUNCTATA (Macquart), 1843:168 (1843:11) (*Conops*). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Ecuador, Peru, Bolivia, Brazil, Paraguay.

BRASILIENSIS Kröber, 1915b:136. Type-locality: Brazil, Bahia. Distr. — Mexico to Peru and Brazil (Mato Grosso to Bahia).

BRUNNIPES Kröber, 1927:131, fig. 6 (antenna, abdomen). Type-locality: Brazil, Rio de Janeiro, Nova Friburgo. Distr. — Brazil (Rio de Janeiro to Santa Catarina).

CAYENNENSIS (Macquart), 1843:169 (1843:12) (*Conops*). Type-locality: French Guiana, Cayenne. Distr. — Mexico (Veracruz), south to Argentina.

*piciventris* Wulp, 1883:12 (*Conops*). Type-locality: "Argentina".

DIMIDIATA (Walker), 1852:254 (*Conops*). Type-locality: unknown. Distr. — Peru, Brazil, Paraguay.

*rufus* Williston, 1892b:44 (*Conops*). Type-locality: Brazil, Mato Grosso, Chapada [dos Guimarães].

FAIRCHILD Camras, 1957b:216. Type-locality: Brazil, Mato Grosso, Maracaju. Distr. — Brazil (Mato Grosso).

FLAVIFRONS (Walker), 1849:672 (*Conops*). Type-locality: Brazil, Pará. Distr. — Peru, Brazil.

*aurifrons* Walker, 1849:1158 (*Conops*; unnecessary nom. nov. for *flavifrons* Walker). Type-locality: Brazil, Pará.

FURCILLATA (Williston), 1882:336 (*Conops*). Type-locality: U.S.A., New Hampshire, White Mts. Distr. — U.S.A., Mexico.

*sororcula* Williston, 1892a:83. Type-locality: Mexico, Guerrero, Xucumanatlán, 7000 feet.

*lucida* Van Duzee, 1931:284. Type-locality: Canada, Ontario, Gull Lake.

INHABILIS (Walker), 1849:672 (*Conops*). Type-locality: unknown. Distr. — Mexico to Argentina.

*maurus* Walker, 1849:673 (*Conops*). Type-locality: unknown.

*xanthops* Williston, 1892a:83. Type-locality: Mexico, Guerrero, Venta de Zopilote, 2800 feet; Tabasco, Teapa.

*bimaculata* Kröber, 1915b:140. Type-locality: "Argentina, Mendoza; Colombia; Ecuador".

*soror* Kröber, 1915b:143. Type-locality: Argentina, Mendoza.



- NERVOSA Kröber, 1915b:144. Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).
- NIGRIFACIES (Bigot), 1887:40 (*Conops*). Type-locality: "Mexico". Distr. — Mexico to Brazil (Rio de Janeiro).  
*carbonarius* Bigot, 1887:42 (*Conops*). Type-locality: "Mexico".  
*analis*, authors, not Fabricius.
- PICIPES Kröber, 1915b:134. Type-locality: Brazil, Rio Grande do Sul. Distr. — Brazil (Rio Grande do Sul).
- PULCHRIPENNIS Kröber, 1927:132, fig. 7 (antenna, abdomen). Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).
- RUFITHORAX Kröber, 1915b:138. Type-locality: "Paraguay, Asunción, Vila Morra; Brazil, Santa Catarina; Peru, Madre de Dios." Distr. — Peru, Brazil, Paraguay.
- SEGETHI (Rondani), 1863:13 (*Conops*). Type-locality: "Chile". Distr. — Brazil, Uruguay, Chile, Argentina.  
*tricolor* Bigot, 1887:41 (*Conops*). Type-locality: Uruguay, Montevideo.
- SPIHENIFORMIS Camras, 1957b:217. Type-locality: Brazil, Rio de Janeiro, Itatiaia, 700 m. Distr. — Brazil (Rio de Janeiro).
- TESTACEA (Wulp), 1883:13 (*Conops*). Type-locality: "Argentina". Distr. — Costa Rica and Trinidad to Argentina (Mendoza).
- TEXANA (Williston), 1882:338 (*Conops*). Type-locality: U.S.A., Texas. Distr. — Canada to Mexico.  
*affinis* Williston, 1882:339 (*Conops*). Type-locality: U.S.A., "Kansas plain; California; Washington Terr."  
*ochreiceps* Bigot, 1887:39 (*Conops*). Type-locality: "U.S.A., Georgia; Mexico".  
*humeralis* Van Duzee, 1927:580. Type-locality: U.S.A., Idaho, Lewiston.  
*simulans* Van Duzee, 1927:581 (as *humeralis* ssp.). Type-locality: U.S.A., California, Imperial Co., Potholes.  
*aurifacies* Van Duzee, 1927:581. Type-locality: U.S.A., California, Stockton.  
*buccalis* Van Duzee, 1927:582. Type-locality: U.S.A., Utah, Great Salt Lake.  
*rubida* Van Duzee, 1934:315. Type-locality: U.S.A., Oregon, Hermiston.
- THECALA Camras, 1957b:215. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- UNICOLOR Kröber, 1915b:145. Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Paraguay.
- VENUSTA Parsons, 1940:32, figs. 12-13 (antenna, abdomen). Type-locality: Haiti, Mannville. Distr. — Haiti.
- VESPIFORMIS Kröber, 1915b:135. Type-locality: Paraguay, Asunción, San Juan; Peru, Loreto, Juanjui (as Surinam, Amazonas, error). Distr. — Paraguay; Peru (may not be the same species, Camras, 1957b:216).

## Unrecognized PHYSOCEPHALA

- DIMIDIATIPENNIS (Sichel), 1862:120 (*Conops*). Type-locality: Uruguay, Montevideo.
- EPIHIPPIUM (Macquart), 1843:168 (1843:11), pl. 1, figs. 5 (head), 5a (wing) (*Conops*). Type-locality: "South America".
- FLAVICEPS (Macquart), 1843:172 (1843:15) (*Conops*). Type-locality: "North America".
- LUGUBRIS (Macquart), 1835:26 (*Conops*). Type-locality: "Brazil".
- MAXIMA Giglio-Tos, 1893:132. Type-locality: "Mexico".
- PUNCTUM (Bigot), 1887:15 (*Conops*). Type-locality: "?South America".
- SERICEA (Olivier), 1791:111 (*Conops*). Type-locality: "Cayenne".

## Subfamily DALMANNIINAE

### Genus BARUERIZODION Papavero

- BARUERIZODION Papavero, 1970:121. Type-species, *steyskali* Papavero (orig. des.).
- STEYSKALI Papavero, 1970: 122, figs. 1-5 (head, leg, ♀ abdomen). Type-locality: Brazil, São Paulo, Barueri.

### Genus PARAZODION Kröber

- PARAZODION Kröber, 1927:135. Type-species, *schmidti* Kröber (mon.).  
Ref. — Kröber, 1939:530-531 (key).
- AFFINIS Kröber, 1939:531 (key), 532. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- PALLIDETINCTUM Kröber, 1939:530 (key), 531. Type-locality: Brazil, Amazonas. Distr. — Brazil (Amazonas).  
*pallidicinctum* Aczél, 1950:73, error.
- PILOSUM Kröber, 1939:531. Type-locality: Mexico, Veracruz, Atoyac and Guerrero, Xucumanatlán. Distr. — Mexico (Veracruz, Guerrero).
- SCHMIDTI Kröber, 1927:136, fig. 11 (abdomen). Type-locality: Costa Rica, San José.

## Subfamily MYOPINAE

### Genus MYOPA Fabricius

- MYOPA Fabricius, 1775:798. Type-species, *Conops buccatus* Linnaeus (Curtis, 1838: pl. 677). [See note in North American catalogue, p. 630].
- Gonirhynchus* Rondani, 1856:58. Type-species, *dispar* Rondani (orig. des.) = *occulta* Wiedemann.  
Ref. — Camras, 1953a (rev.).

- FENESTRATA Coquillett, 1902:197. Type-locality: Mexico, Chihuahua, Sierra Madre, R. Piedras Verdes, 7300 feet. Distr. -- Mexico (Chihuahua).
- PULCHRA Coquillett, 1902:198. Type-locality: Mexico, Chihuahua, Sierra Madre, R. Piedras Verdes, 7300 feet. Distr. — Mexico.
- WILLISTONI Banks, 1916:197 (nom. nov. for *pictipennis* Williston). Type-locality: U.S.A., Arizona and California. Distr. — U.S.A., Mexico.
- pictipennis* Williston, 1885:382 (preocc. Robineau-Desvoidy, 1830). Type-locality: U.S.A., Arizona and California.

#### Genus NEOZODION Szilády

- NEOZODION Szilády, 1926:590. Type-species, *pruinosum* Szilády (mon.).
- PRUINOSUM Szilády, 1926:590, fig. 1 (whole insect, head). Type-locality: Peru, Vilcanota. Distr. — Peru.

#### Genus ROBERTSONOMYIA Malloch

- ROBERTSONOMYIA Malloch, 1919:205. Type-species, *Zodion palpalis* Robertson (orig. des.).
- Ref. — Camras, 1944 (review, in *Zodion*); Parsons, 1948 (synopsis).
- PALPALIS (Robertson), 1901:284 (*Zodion*). Type-locality: U.S.A., Illinois. Distr. — U.S.A., Mexico.
- scapularis* Adams, 1903:34 (*Zodion*). Type-locality: U.S.A., Arizona.

#### Genus SCATOCCEMYIA Camras

- SCATOCCEMYIA Camras, 1957a:13. Type-species, *plaumanni* Camras (orig. des.).
- PLAUMANNI Camras, 1957a:14. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).

#### Genus THECOPHORA Rondani

- THECOPHORA Rondani, 1845:15. Type-species, *Myopa atra* Fabricius (Rondani, 1856:58).
- Thecomyia*, error.
- Occemya* Robineau-Desvoidy, 1853:92, 130. Type-species, *Myopa atra* Fabricius (orig. des.).
- Occemyia* and *Oncomyia*, emend.
- Eccemyia*, error.
- ABBREVIATA (Loew), 1866:41 (Cent. 7, no. 73) (*Oncomyia*). Type-locality: U.S.A., Washington, D.C. Distr. — U.S.A., Mexico (Durango).
- melanopoda* Williston, 1885:393 (*Oncomyia*; as *modesta* var.). Type-locality: unknown.
- HAITIENSIS (Parsons), 1940:35, figs. 10, 11 (antenna, abdomen) (*Occemyia*). Type-locality: Haiti, Port-au-Prince. Distr. — Haiti. N. comb.

- NIGRIPES (Camras), 1945:218 (*Occemya*). Type-locality: Canada, Ontario.  
Distr. — Canada to Mexico and Guatemala.
- OCCIDENSIS (Walker), 1849:676 (*Zodion*). Type-locality: U.S.A., Ohio.  
Distr. — Canada, south to U.S.A. (California) and Mexico.
- loraria Loew, 1866:41 (Cent. 7, no. 74) (*Oncomyia*). Type-locality:  
U.S.A., New Hampshire.
- baroni Williston, 1883:97 (*Oncomyia*). Type-locality: U.S.A.,  
California.
- brevirostris Van Duzee, 1927:593 (*Oncomyia*). Type-locality:  
U.S.A., Washington, Pullman.
- aequalis Van Duzee, 1927:594 (*Oncomyia*). Type-locality: U.S.A.,  
California, Lake Co., Lower Lake.
- terminalis Van Duzee, 1927:594 (*Oncomyia*). Type-locality: U.S.A.,  
Oregon, Hood River.
- bimacula Curran, 1933:7 (*Zodion*). Type-locality: Canada, Ontario.
- frontalis Van Duzee, 1934:322 (*Oncomyia*). Type-locality: U.S.A.,  
Washington, Puyallup.

#### Genus ZODION Latreille

- ZODION Latreille, 1796:162. Type-species, *Myopa cinerea* Fabricius (sub.  
mon.; Latreille, 1802:444).
- ALBONOTATUM Townsend, 1897b:175. Type-locality: U.S.A., Texas,  
Brownsville and Fort Brown. Distr. — U.S.A. to Guatemala.
- AMERICANUM Wiedemann, 1830:242. Type-locality: Uruguay, Montevideo.  
Distr. — U.S.A. to Uruguay, also West Indies.
- nanellum Loew, 1866:42 (Cent. 7, no. 75). Type-locality: U.S.A.,  
District of Columbia.
- pygmaeum Williston, 1885:381. Type-locality: U.S.A., California,  
and Colorado, North Park.
- albifacies Van Duzee, 1927:588. Type-locality: U.S.A., Arizona,  
Baboquivari Mts.
- ANALE Kröber, 1915a:113. Type-locality: Chile, Concepción. Distr. —  
U.S.A. to Chile.
- AUREOPYGIUM Kröber, 1915a:114. Type-locality: Paraguay, Asunción.  
Distr. — Mexico, Costa Rica, Peru, Paraguay.
- ?pallidum Kröber, 1929:173 (as "forma"). Type-locality: Bolivia,  
Aguarai.
- BRASILIENSIS Kröber, 1939:535. Type-locality: Brazil, Santa Catarina,  
Nova Teutônia. Distr. — Brazil (Santa Catarina).
- BREVISTRIATUM Kröber, 1929:173. Type-locality: Bolivia, Villa Montes.  
Distr. — Bolivia.
- CANESCENS Parsons, 1940:34, figs. 4-5 (antenna, abdomen). Type-locality:  
Cuba, Soledad, near Cienfuegos. Distr. — Cuba.
- aenescens Aczél, 1950:74, error.
- COSTARICENSIS Kröber, 1937:98. Type-locality: Costa Rica, San José, La  
Caja. Distr. — Costa Rica.



- DIBAPHIUS Kröber, 1915a:112. Type-locality: Peru, Piura (as Piuva, error).  
Distr. — Peru to Argentina (Mendoza).
- FLAVIPENNE Bigot, 1887:204. Type-locality: "Mexico". Distr. — Mexico.
- FLAVOCAUDATUM Bigot, 1887:205. Type-locality: "Chile". Distr. — Peru, Chile.
- analis* Kröber, 1915a:113. Type-locality: Chile, Concepción.
- FLAVOSTRIATUM Camras, 1953b:399. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- FULVIFRONS Say, 1823:83 (1859:74). Type-locality: U.S.A., Maryland and Pennsylvania. Distr. — Canada to Mexico.
- abdominalis* Say, 1823:84 (1859:74). Type-locality: U.S.A., Nebraska.
- rubrifrons* Robineau-Desvoidy, 1830:247 (*Myopa*). Type-locality: U.S.A., Pennsylvania.
- bistria* Walker, 1849:679 (*Myopa*). Type-locality: "North America".
- lativentre* Graenicher, 1910:26. Type-locality: U.S.A., Wisconsin.
- obscurum* Banks, 1916:194. Type-locality: U.S.A., California, San Bernardino Co., Bear Valley, 6700 feet and Santa Monica.
- sayi* Banks, 1916:195. Type-locality: U.S.A., Virginia, Falls Church, and Oregon, Mt. Jefferson and Horse Lake.
- reclusum* Banks, 1916:195. Type-locality: U.S.A., California, Redlands, and Oregon, Corvallis.
- bilineata* Van Duzee, 1927:586. Type-locality: U.S.A., Oregon, Wallowa Mountains.
- GRISESCENS Kröber, 1939:537. Type-locality: Argentina, Salta. Distr. — Argentina (Salta).
- INTERMEDIUM Banks, 1916:193. Type-locality: U.S.A., Pennsylvania, Pocono Lake and New Jersey, Clementon. Distr. — Canada to Mexico.
- occidentale* Banks, 1916:194. Type-locality: U.S.A., Oregon, Corvallis and Montaville, Mary's River.
- MACULIVENTRIS Kröber, 1915a:108. Type-locality: Mexico, Mazatlán. Distr. — Mexico.
- OBLIQUEFASCIATUM (Macquart), 1846:269 (1846:141) (*Myopa*). Type-locality: U.S.A., Texas, Galveston. Distr. — U.S.A. to Guatemala.
- leucostoma* Williston, 1885:380. Type-locality: U.S.A., Kansas, Arizona and Montana.
- ectura* Adams, 1903:35 (*Myopa*). Type-locality: unknown.
- PERLONGUM Coquillett, 1902:199. Type-locality: "U.S.A., New Mexico, White Mts., Rio Ruidoso, 6700 feet; Mexico, Sierra Madre, Chihuahua, head of Rio Piedras Verdes, 7300 feet; U.S.A., Colorado". Distr. — U.S.A., Mexico.
- PERUVIANUM Kröber, 1915a:115. Type-locality: Peru, Sullana. Distr. — Mexico, Costa Rica, Peru.
- PICTUM Schiner, 1868:370. Type-locality: "Colombia". Distr. — Mexico, Costa Rica, Colombia, Venezuela, Brazil.
- PUNCTIPENNIS Kröber, 1915a:111. Type-locality: Chile, Concepción; Argentina, Mendoza. Distr. — Chile, Argentina.
- ROSSI Camras, 1957a:12. Type-locality: Mexico, San Luis Potosí, 40-50 mi. N.W. of C. del Maiz. Distr. — Mexico (San Luis Potosí).

- SIMIS Camras, 1953b:397. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- TRIANGULARIS Kröber, 1939:537. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- ZEBRINUM Bigot, 1887:204. Type-locality: "Mexico". Distr. — Mexico, Costa Rica, Peru.
- auricaudatum* Williston, 1892a:85, pl. 2, figs. 14, 14a (whole insect, profile). Type-locality: Mexico, Guerrero, Chilpancingo and Tepetlapa.
- aureopictum* Kröber, 1927:138. Type-locality: Costa Rica, San José.

## Subfamily STYLOGASTRINAE

### Genus STYLOGASTER Macquart

- STYLOGASTER Macquart, 1835:38. Type-species, *Conops stylatus* Fabricius (mon.).
- Stylomyia* Westwood, 1852:268. Type-species, *leonum* Westwood (Coquillett, 1910:610).
- Refs. — Aldrich, 1930 (rev.); Curran, 1942 (rev.); Lopes, 1937 (rev.).
- ABDOMINALIS Kröber, 1914:352. Type-locality: Bolivia, La Paz, Mapiri, Sarampiuni, 700 m. Distr. — Bolivia.
- AMAPAENSIS Monteiro, 1960:109. figs. 26-36 (male head, antenna, leg, abdomen, genitalia). Type-locality: Brazil, Amapá, Serra do Navio. Distr. — Brazil (Amapá).
- AMAZONASI Camras, 1963:825. Type-locality: Brazil, Amazonas, Itapiranga (as Ipiranga, error). Distr. — Brazil (Amazonas).
- APICALIS Aldrich, 1930:21. Type-locality: Honduras, Lombardia. Distr. — Honduras, Panama (Canal Zone).
- AUSTRALIS Lopes, 1937:284. figs. 56-60 (ovipositor, female body, leg). Type-locality: Brazil, Guanabara, Rio de Janeiro, Jardim Botânico. Distr. — Brazil (Guanabara).
- AZTECA Curran, 1942:64, 66. Type-locality: Guatemala, Sa. Emilia Pochuta. Distr. — Guatemala.
- BANKSI Aldrich, 1930:18. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).
- BEQUAERTI Curran, 1942:64, 66. Type-locality: Guatemala, Guatalón, Sa. Adelaida. Distr. — Guatemala.
- BIANNULATA (Say), 1823:81 (1859:72) (*Myopa*). Type-locality: U.S.A., Pennsylvania. Distr. — U.S.A., Mexico.
- confusa* Westwood, 1852:269 (*Stylomyia*). Type-locality: unknown.
- stylata*, authors, not Fabricius.
- BREVIVENTRIS Aldrich, 1930:19. Type-locality: Guyana, Bartica, Kartabo. Distr. — Guyana.
- CURRANI Aldrich, 1930:16. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).

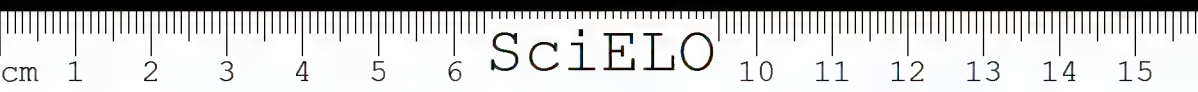
- DECORATA Aldrich, 1930:16. Type-locality: Costa Rica, San Mateo, Higuito, and La Suiza de Turrialba. Distr. — Costa Rica.
- ELONGATA Camras, 1963:825. Type-locality: Ecuador, Rio Negro, 1300 m. Distr. — Ecuador.
- ETHIOPA Townsend, 1897a:26. Type-locality: Mexico, Veracruz, Rio Nautla. Distr. — Mexico to Brazil (Santa Catarina).
- FASCIATA Aldrich, 1930:20. Type-locality: Guyana, Bartica. Distr. — Guyana.
- FIDELIS Monteiro, 1960:107, figs. 12-25 (male leg, abdomen, genitalia; female ovipositor, leg). Type-locality: Brazil, Amapá, Serra do Navio. Distr. — Brazil (Amapá).
- GEYSKESI Curran, 1942:63, 65. Type-locality: Surinam, Serabreck. Distr. — Surinam.
- HIRTINERVIS Lopes & Monteiro, 1959:22, figs. 74-84 (male abdomen, genitalia, leg; female ovipositor; egg). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Brazil (Minas Gerais, Rio de Janeiro, Guanabara, São Paulo).
- INDISTINCTA Aldrich, 1930:24. Type-locality: Panama, Canal Zone, Cano Saddle, Gatún Lake. Distr. — Panama (Canal Zone).
- JACTATA Lopes & Monteiro, 1959:19, figs. 67-73 (male genitalia, 5th sternite; female ovipositor). Type-locality: Brazil, Minas Gerais, Calado, Rio Doce. Distr. — Brazil (Minas Gerais).
- LANEI Monteiro, 1960:104, figs. 1-11 (male leg, abdomen, genitalia; female ovipositor; egg). Type-locality: Brazil, Amapá, Serra do Navio. Distr. — Brazil (Amapá).
- LEPIDA Lopes & Monteiro, 1959:11, figs. 36-48 (male genitalia, wing, leg; female ovipositor; egg). Type-locality: Brazil, Rio de Janeiro, Angra dos Reis, Japuíba. Distr. — Brazil (Minas Gerais, Rio de Janeiro, Guanabara).
- rectinervis* Aldrich of Lopes, 1937:288, figs. 61-63, 66 (male, dorsal view, head, genitalia; egg), misident.
- LONGICORNIS Lopes, 1937:274, figs. 22-26 (male wing, antenna, genitalia, body). Type-locality: Brazil, Guanabara, Rio de Janeiro, Jardim Botânico. Distr. — Brazil (Guanabara).
- LOPESI Camras, 1957a:15. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- MACRURA Lopes, 1938:403, pl. 1, figs. 1-9 (female, lateral aspect, egg, ovipositor, wing, antenna). Type-locality: Brazil, São Paulo, Campos do Jordão, Eugênio Lefevre, 1200 m. Distr. — Brazil (São Paulo).
- MINUTA Townsend, 1897a:27. Type-locality: Mexico, Veracruz, Rio Nautla. Distr. — Mexico to Panama and Peru.
- MURIELAE Camras, 1967:6. Type-locality: Ecuador, Rio Negro, 1300 m. Distr. — Ecuador.
- NIGRICOXA Camras, 1967:5. Type-locality: Panama, Chiriquí, Valley of the Clouds, 10 mi. W. of El Volcán de Chiriquí, 4500 feet. Distr. — Panama.
- NIGRIFRONS Lopes, 1937:278, figs. 27-32 (male genitalia, body, wing, head, antenna). Type-locality: Brazil, Rio de Janeiro, Angra dos Reis, Japuíba. Distr. — Brazil (Rio de Janeiro).



- ORNATIPES Kröber, 1914:350. Type-locality: "Brazil". Distr. — Brazil.
- PANAMENSIS Aldrich, 1930:26. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).
- PECTINATA Aldrich, 1930:22. Type-locality: Honduras, Lombardia. Distr. — Honduras, Peru.
- PERUVIANA Aldrich, 1930:25. Type-locality: Peru, Loreto, Paso de Lares. Distr. — Peru.
- PILOSA Lopes & Monteiro, 1959:14, figs. 49-62 (male genitalia, leg; female ovipositor; egg). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil (Rio de Janeiro, Guanabara, São Paulo).
- RECTINERVIS Aldrich, 1930:23. Type-locality: Guyana, Bartica, Kartabo. Distr. — Costa Rica, Guyana.
- RETENMEYERI Camras, 1967:7. Type-locality: Costa Rica, Monteverde, 1400 m (10°29' N, 85°50' W). Distr. — Costa Rica.
- SHANNONI Lopes & Monteiro, 1959:17, figs. 63-66 (male abdomen and genitalia). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil (Rio de Janeiro, Guanabara).
- SOUZAI Monteiro, 1960:111, figs. 37-43 (male genitalia). Type-locality: Brazil, Amapá, Mazagão, "from Jari to Vila Nova". Distr. — Brazil (Amapá).
- SPECIOSA Aldrich, 1930:22. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).
- STYLATA (Fabricius), 1805:177 (*Conops*). Type-locality: "South America". Distr. — Brazil, Paraguay, Argentina.  
*argentina* Kröber, 1929:134 (as *biannulata* var.). Type-locality: Argentina, Tapikiolé.
- STYLOSA Townsend, 1897a:27. Type-locality: Mexico, Veracruz, Rio Nautla. Distr. — Mexico to Panama (Canal Zone).  
*horvathi* Szilády, 1926:592, fig. 2 (thorax and abdomen). Type-locality: Costa Rica, La Suiza de Turrialba.
- TARSATA Lopes, 1937:279, figs. 33-43 (female ovipositor, male antenna, wing; female spermatheca; male body, leg, metatarsus, genitalia; egg). Type-locality: Brazil, Guanabara, Rio de Janeiro, Jardim Botânico. Distr. — Brazil (Rio de Janeiro, Guanabara).

#### LITERATURE CITED

- ACZÉL, M.  
 1950. Catalogo de la familia "Conopidae" (Diptera) de la region neotropical. *Acta Zool. Lilloana* 9:49-84.
- ADAMS, C. F.  
 1903. Dipterological contributions. *Kansas Univ. Sci. Bull.* 2 [ = whole ser., 12 ]:21-47. [*Kansas Univ. Bull.* 4(6)].
- ALDRICH, J. M.  
 1930. American two-winged flies of the genus *Stylogaster* Macquart. *Proc. U. S. Nat. Mus.* 78(9):1-27.





BANKS, N.

1916. Synopses of *Zodion* and *Myopa* with notes on other Conopidae. *Ann. Ent. Soc. Amer.* 9:191-200.

BIGOT, J. M. F.

1857. Dipteros, pp. 328-349 [pl. 20 of insects and crustaceans, bound in vol. 8], in R. de la Sagra, *Historia física, política y natural de la Isla de Cuba* 7:371 p. Paris, "1856". (Also in French, pp. 783-829, Paris, 1857).
1887. Diptères nouveaux ou peu connus. 31<sup>e</sup> Partie. XXXIX: Descriptions de nouvelles espèces de Stratiomydi et de Conopsidi; 32<sup>e</sup> Partie. XL: Descriptions de nouvelles espèces de Myopidi. *Ann. Soc. Ent. France* (6) 7:20-46, 203-208.

BLANCHARD, E. E.

1938. Descripciones y anotaciones de dípteros argentinos. *An. Soc. Cient. Argent.*, Buenos Aires 126:345-386, 8 figs.

CAMRAS, S.

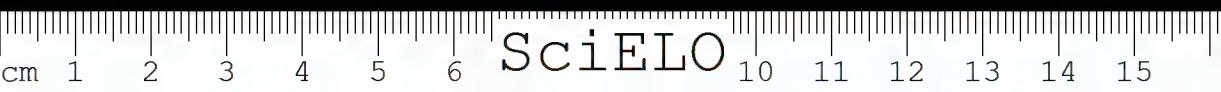
1944. Notes on the North American species of the *Zodion fulvifrons* group (Diptera: Conopidae). *Pan-Pacific Ent.* 20:121-128.
1945. A study of the genus *Occemyia* in North America (Diptera: Conopidae). *Ann. Ent. Soc. Amer.* 38:216-222.
- 1953a. A review of the genus *Myopa* in North America (Diptera: Conopidae). *Wassman Jour. Biol.* 11(1):97-114.
- 1953b. Notes on Neotropical *Zodion* and *Parazodion* (Diptera: Conopidae). *Ann. & Mag. Nat. Hist.* (12) 6:395-399.
- 1955a. A review of the New World flies of the genus *Conops* and allies (Diptera: Conopidae). *Proc. U. S. Nat. Mus.* 105:155-187.
- 1955b. New Conopidae from South America, Africa, and Australia (Diptera). *Ent. News* 66(5):119-125.
- 1957a. Descriptions and records of neotropical Conopidae (Diptera). *Psyche* 64(1):9-16.
- 1957b. A review of the New World Physocephala (Diptera: Conopidae). *Ann. Ent. Soc. Amer.* 50(3):213-218.
1963. Notes on some New World Conopidae (Diptera). *Ann. Ent. Soc. Amer.* 56(6):824-826.
1967. Notes on Neotropical *Stylogaster* (Diptera: Conopidae). *Jour. Kansas Ent. Soc.* 40(1):4-9.

CHEN, S. H.

1939. Étude sur les diptères conopides de la Chine. [Shanghai] Mus. Heude, *Notes d'Ent. Chin.* 6:161-231, 45 figs.

COQUILLETT, D. W.

1902. New cyclorhaphous Diptera from Mexico and New Mexico. *Canad. Ent.* 34:195-202.
1904. New Diptera from Central America. *Proc. Ent. Soc. Wash.* 6:90-98.
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.



CURRAN, C. H.

1933. New North American Diptera. *Amer. Mus. Nov.* 673:1-11, 1 fig.  
1934. The Diptera of Kartatbo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Amer. Mus. Nat. Hist.* 66:287-532, 54 figs.  
1942. American Diptera. *Bull. Amer. Mus. Nat. Hist.* 80:51-84.

CURTIS, J.

1831. *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland* 8: pls. 338-383. London.  
1838. *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland* 15:674-721. London.

EYMELT, H.

1942. Zwei neue Conopiden aus Südamerika (Ins. Dipt.). *Senckenbergiana* 25:53-55, 2 figs.

FABRICIUS, J. C.

1775. *Systema entomologiae, sistens insectorum classes, ordines, genera, species adiectis synonymis, locis, descriptionibus*, 832 pp. Flensburgi et Lipsiae (= Flensburg and Leipzig).  
1794. *Entomologia systematica emendata et aucta* 4:472 pp. Hafniae (= Copenhagen).  
1805. *Systema anthiatorum secundum ordines, genera, species*, 373 + 30 pp. Brunsvigae (= Brunswick).

GIGLIO-TOS, E.

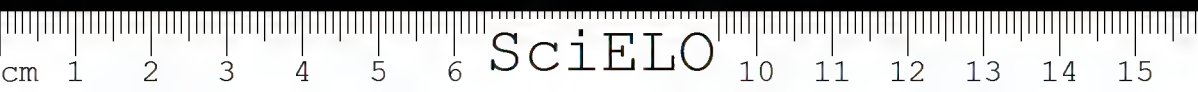
1892. *Ditteri del Messico* 1:72 pp., 1 pl. Torino. (Also published in *Mem. R. Accad. delle Sci. Torino* 43:99-168, 1 pl., 1893).

GRAENICHER, S.

1910. Some new and rare Diptera from Wisconsin. *Canad. Ent.* 42:26-29.

KRÜBER, O.

1914. Das genus *Stylogaster* Macq. (Dipt.). *Ent. Mitt.* 3(11-12):338-353.  
1915a. Die Gattung *Zodion* Latr. *Arch. f. Naturg.* (A) 81(4):84-117.  
1915b. Die indo-australische und südamerikanische *Physocephala*-Arten. *Arch. f. Naturg.* (A) 81(4):117-145.  
1915c. Die nord- und südamerikanischen Arten der Gattung *Conops*. *Arch. f. Naturg.* (A) 81(5):121-160.  
1917. Beiträge zur Kenntnis der Conopiden. *Arch. f. Naturg.* (A) 83(7):141-143.  
1919. Katalog der Conopiden nebst Beschreibung der Gattungen und Bestimmungstabellen der Gattungen und Arten. *Arch. f. Naturg.* (A) 83(8):1-91, (9):1-52, 10 pls.  
1927. Beiträge zur Kenntnis der Conopidae. *Konowia* 6:122-143, 12 figs.  
1929. Die Ausbeute der deutschen Chaco-Expedition 1925/26 (Diptera). XII. Conopidae. *Konowia* 8:173-174.



1937. Neue Beiträge zur Kenntnis der Conopidae (Diptera). *Stettin. Ent. Ztg.* 98:96-100, 3 figs.

1939. Beiträge zur Kenntnis der Conopiden I., II., III. Die Conopiden Süd- und Mittelamerikas (incl. Antillen und Mexiko). *Ann. & Mag. Nat. Hist.* (11) 4:362-395, 454-468, 525-543.

LATREILLE, P. A.

[1796]. *Précis des caractères génériques des insectes, disposés dans un ordre naturel*, 179 pp. Paris, "An V".

[1802]. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes. Tome troisième* [Vol. 3]. [Vol. 95], 468 pp. in C. S. Sonnini, ed., *Histoire Naturelle par Buffon*. Paris, "An X".

LINNAEUS, C.

1758. *Systema naturae per regna tria naturae. Ed. X.* 1:824 pp. Holmiae (= Stockholm).

LOEW, H.

1853. Neue Beiträge zur Kenntniss der Dipteren. Erster Beitrag. *Programm K. Realschule zu Meseritz 1853*:1-38. (Also separately issued, same pagination, Berlin, 1853).

1866. *Diptera Americae septentrionalis indigena, Centuria septima. Berlin. ent. Ztschr.* 10:1-54. (Also separately published, 1872: 61-114).

LOPES, H. DE SOUZA

1937. Contribuição ao conhecimento do genero "*Stylogaster*" Macquart, 1835 (Dipt. Conopidae). *Arch. Inst. Biol. Vegetal* 3(2):257-293, 66 figs.

1938. Sobre uma nova especie do genero *Stylogaster* Macquart do Brasil (Dipt.: Conopidae). *Mem. Inst. Oswaldo Cruz* 33(3): 403-405, 9 figs.

LOPES, H. DE S. & L. MONTEIRO

1959. Sobre algumas espécies brasileiras de *Stylogaster* Macquart, com descrição de quatro [(sic), cinco] espécies novas (Diptera, Conopidae). *Studia Entomologica*, São Paulo 2(2):1-24, 88 figs.

MACQUART, J.

1835. *Histoire naturelle des insectes. Diptères* 2:703 pp., 12 pls. Paris.

1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille* 1842:162-460, 36 pls. (Also separately published as vol. 2(3):5-304, 36 pls. Paris, 1843).

1846. Diptères exotiques nouveaux ou peu connus. [Ier] Supplément. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille* (1845) 1844:133-364, 20 pls. (Also separately published as Supplément [I]:5-238, 20 pls. Paris, 1846).

MALLOCH, J. R.

1919. The generic status of *Zodion palpalis* Robertson (Diptera, Conopidae), with generic key to the family. *Proc. Ent. Soc. Wash* 21:204-205.

1923. [Conopidae], pp. 172-175, in *British Museum (Natural History). Diptera of Patagonia and South Chile* 6(3):117-175. London.

- MONTEIRO, L.
1960. Insecta Amapaensia. Diptera Conopidae: espécies do gênero *Stylogaster* Macquart, 1835. *Mem. Inst. Oswaldo Cruz* 58:103-114, 48 figs.
- OLIVER, G. A.
1791. *Encyclopédie méthodique. Dictionnaire des Insectes* 6 (Cir-Gyr): 704 pp. Pankouke, Paris.
- OSTEN SACKEN, C. R.
1878. Catalogue of the described Diptera of North America [Ed. 2]. *Smithson. Misc. Coll.* 12 [2 (= publ. 270)]:1-276.
- PAPAVERO, N.
1970. Novo gênero de Dalmanniinae do Brasil (Diptera, Conopidae). *Papéis Avulsos Zool.*, S. Paulo 23(13): 121-125, 5 figs.
- PARSONS, C. T.
1940. The Conopidae of the West Indies and Bermuda (Diptera). *Psyche* 47:27-37, 1 pl.
1948. A classification of North American Conopidae. *Ann. Ent. Soc. Amer.* 41:223-246, 1 fig.
- RETTENMEYER, C. W.
1961. Observations on the biology and taxonomy of flies found over swarm raids of army ants (Diptera, Tachinidae, Conopidae). *Univ. Kansas Sci. Bull.* 42(8):993-1066, 4 figs., 4 tables.
- ROBERTSON, C.
1901. Some new Diptera. *Canad. Ent.* 33:284-286.
- ROBINEAU-DESVOIDY, J. B.
1830. Essai sur les Myodaires. [Paris] Inst. de France, [Cl. des] Sci. Math. et Phys., Acad. Roy. des Sci., *Mém. présentés par divers Savans* [ser. 2] 2:1-813.
1853. Diptères des environs de Paris (1). Famille des Myopaires. *Bull. Soc. des Sci. Hist. et Nat. de l'Yonne* 7:83-160.
- RONDANI, C.
1845. Sulle differenze sessuali delle Conopinae e Myopinae negli insetti ditteri. Memoria undecima per servir alla ditterologia italiana. *Nuovi Ann. delle Sci. Nat. e Rend. Soc. Agr. e Accad. delle Sci. dell'Ist. Bologna* (2) 3:5-16.
1856. *Dipterologiae Italicae Prodrromus. Vol. I: Genera Italica ordinis dipterorum ordinatim disposita et distincta et in familias et stirpes aggregata*, 228 pp. Parmae (= Parma).
1863. *Diptera exotica revisa et annotata*, 99 pp., 1 pl. Modena. (Also published under the title: "Dipterorum species et genera aliqua exotica", in *Arch. per Zool., l'Anat. e Fis. Modens* (1863) 3(1): 1-99, pl. 5, 1864).
- SAY, T.
1823. Descriptions of dipterous insects of the United States. *Jour. Acad. Nat. Sci. Philad.* 3: 9-54, 73-104.



1859. In J. L. LeConte, ed., *The complete writings of Thomas Say on the entomology of North America* 2: 814 pp. New York.
- SCHINER, I. R.
1861. Vorläufiger Commentar zum dipterologischen Theile der "Fauna Austriaca". III. *Wien. Ent. Monatschr.* 5: 137-144.
1868. Diptera [Art. 1], pp. 1-388, in [B. von Wüllersdorf-Urbair, in charge], *Reise der österreichischen Fregatte Novara*, Zool. 2(1,B). Wien.
- SICHEL, [O.]
1862. Observations hyménoptérologiques. II. Sur des conopiens parasites d'hyménoptères. *Ann. Soc. Ent. France* (4) 2:120-122.
- STUCKENBERG, B. R.
1963. A study on the biology of the genus *Stylogaster*, with the description of a new species from Madagascar (Diptera: Conopidae). *Rev. Zool. Bot. Africaines* 68(3-4):251-275, 25 figs., 1 pl.
- SZILÁDY, Z.
1926. Dipterenstudien. I. Zur Kenntnis der Conopiden. *Ann. Mus. Nat. Hung.* 24:586-593, figs. 1-3.
- TOWNSEND, C. H. T.
- 1897a. Contributions to the New Mexico Biological Station. No. 2. On a collection of Diptera from the lowlands of the Rio Nautla, in the State of Vera Cruz. *Ann. & Mag. Nat. Hist.* (6) 19:16-34.
- 1897b. Diptera from the lower Rio Grande or Tamaulipan region of Texas. I. *Jour. New York Ent. Soc.* 5:171-178.
- VAN DUZER, M. C.
1927. A contribution to our knowledge of the North American Conopidae (Diptera). *Proc. Calif. Acad. Sci.* (4) 16:573-604.
1931. A new species of *Physocephala* from Ontario, Canada (Conopidae, Diptera). *Canad. Ent.* 63:284.
1934. Conopidae from North Dakota and the Rocky Mountain region. *Ann. Ent. Soc. Amer.* 27:315-323, 4 figs.
- WALKER, F.
- 1848-49. *List of the specimens of dipterous insects in the collection of the British Museum* 1(1848):1-229, 2(1849):231-484, 3(1849):485-687, 4(1849):689-1172. London.
1852. Diptera, in [W. W. Saunders, ed.], *Insecta Saundersiana* 1:157-252, 253-414, 4 pls. London, "1856".
- WESTWOOD, J. O.
- (1852). Observations on the destructive species of dipterous insects known in Africa under the names of the tsetse, zimb and tsaltsalya, and on their supposed connexion with the fourth plague of Egypt. *Proc. Zool. Soc. London* (1850) 18:258-270, 1 pl.
- WIEDEMANN, C. R. W.
1830. *Aussereuropäische zweiflügelige Insekten* 2:xii + 684 pp., 5 pls. Hamm.

WILLISTON, S. W.

1882. The North American species of *Conops*. *Trans. Conn. Acad. Arts & Sci.* 4:325-342, 1 pl.  
 1883. North American Conopidae: *Stylogaster*, *Dalmannia*, *Oncomyia*. *Trans. Conn. Acad. Arts & Sci.* (1882-1885) 6:91-98.  
 1885. North American Conopidae: Conclusion. *Tans. Conn. Acad. Arts & Sci.* (1882-1885) 6:377-394, 1 pl.  
 1888. A new South American genus of Conopinae. *Canad. Ent.* 20:10-12.  
 1892a. Fam. Syrphidae [concl.]; Fam. Conopidae; Fam. Pipunculidae, pp. 52-72, 73-79, pl. 1, pl. 2, figs. 1-12; pp. 79-86, pl. 2, figs. 13-14; pp. 86-88, in F. D. Godman & O. Salvin, eds., *Biologia Centrali Americana, Zoologia-Insecta-Diptera* 3:127 pp., 2 pls. London.  
 1892b. Diptera Brasiliana. Part II. *Kansas Univ. Quart.* 1(1):43-46.

WULP, F. M. VAN DER

1883. Amerikaansche Diptera. *Tijdschr. v. Ent.* 26:1-60, pls. 1-2.

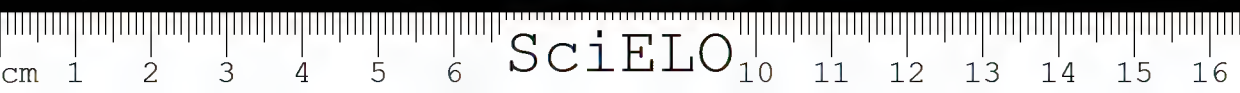
ZIMINA, L. V.

1960. New data in Conopidae system (Diptera) exemplified by the representatives of the USSR fauna. [In Russian with English summary]. *Zool. Zhurn.* 39:723-733, 10 figs.

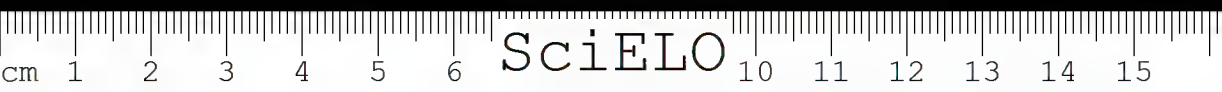
# INDEX

|  |       |
|--|-------|
| abbreviata (Loew), 1866 ( <i>Oncomyia</i> ), <i>Thecophora</i> .....       | 47.10 |
| abbreviatus Camras, 1955, <i>Physoconops</i> .....                         | 47.3  |
| abdominalis Kröber, 1914, <i>Stylogaster</i> .....                         | 47.13 |
| abdominalis Say, 1823, <i>Zodion</i> .....                                 | 47.12 |
| abruptus (Kröber), 1915 ( <i>Conops</i> ), <i>Physoconops</i> .....        | 47.5  |
| Aconops Kröber, 1919 .....   | 47.3  |
| aenescens Aczél, 1950, <i>Zodion</i> (error) .....                         | 47.11 |
| aequalis (Van Duzee), 1927 ( <i>Oncomyia</i> ), <i>Thecophora</i> .....    | 47.11 |
| affinis Kröber, 1939, <i>Parazodion</i> .....                              | 47.9  |
| affinis (Williston), 1882 ( <i>Conops</i> ), <i>Physocephala</i> .....     | 47.8  |
| albifacies Van Duzee, 1927, <i>Zodion</i> .....                            | 47.11 |
| albonotatum Townsend, 1897, <i>Zodion</i> .....                            | 47.11 |
| alexanderi Camras, 1955, <i>Tropidomyia</i> .....                          | 47.6  |
| amapaensis Monteiro, 1960, <i>Stylogaster</i> .....                        | 47.13 |
| amazonasi Camras, 1963, <i>Stylogaster</i> .....                           | 47.13 |
| americanum Wiedemann, 1830, <i>Zodion</i> .....                            | 47.11 |
| anale Kröber, 1915, <i>Zodion</i> .....                                    | 47.11 |
| analis, authors, <i>Physocephala</i> .....                                 | 47.8  |
| analis (Fabricius), 1805 ( <i>Conops</i> ), <i>Physoconops</i> .....       | 47.5  |
| analis Kröber, 1915, <i>Zodion</i> .....                                   | 47.12 |
| angustifrons (Williston), 1892 ( <i>Conops</i> ), <i>Physoconops</i> ..... | 47.5  |
| angustus (Kröber), 1915 ( <i>Conops</i> ), <i>Physoconops</i> .....        | 47.5  |
| antennatus (Kröber), 1915 ( <i>Conops</i> ), <i>Physoconops</i> .....      | 47.3  |

|   |       |
|---|-------|
| <i>anthreas</i> (Williston), 1892 (Conops), Physoconops .....       | 47.5  |
| <i>apicalis</i> Aldrich, 1930, Stylogaster .....                    | 47.13 |
| <i>apicalis</i> Camras, 1955, Physoconops .....                     | 47.6  |
| <i>argentifacies</i> (Van Duzee), 1927 (Conops), Physoconops .....  | 47.6  |
| <i>argentifacies</i> Williston, 1892, Conops .....                  | 47.2  |
| <i>argentina</i> Kröber, 1929, Stylogaster .....                    | 47.15 |
| <i>arizonicus</i> (Banks), 1916 (Conops), Physoconops .....         | 47.3  |
| <i>Asiconops</i> Chen, 1939 .....                                   | 47.1  |
| <i>atratus</i> (Malloch), 1933 (Conops), Maolchoconops .....        | 47.2  |
| <i>atrofemorus</i> Camras, 1963, Physoconops .....                  | 47.5  |
| <i>aurcopictum</i> Kröber, 1927, Zodion .....                       | 47.13 |
| <i>aureopygium</i> Kröber, 1915, Zodion .....                       | 47.11 |
| <i>aureoscutellatus</i> (Kröber), 1937 (Conops), Physoconops .....  | 47.5  |
| <i>auricaudatum</i> Williston, 1892, Zodion .....                   | 47.13 |
| <i>aurifacies</i> Van Duzee, 1927, Physocephala .....               | 47.8  |
| <i>aurifrons</i> (Walker), 1849 (Conops), Physocephala .....        | 47.7  |
| <i>australis</i> Lopes, 1937, Stylogaster .....                     | 47.13 |
| <i>azteca</i> Curran, 1942, Stylogaster .....                       | 47.13 |
| <i>banksi</i> Aldrich, 1930, Stylogaster .....                      | 47.13 |
| <i>bahamensis</i> Parsons, 1940, Physoconops .....                  | 47.4  |
| <i>baroni</i> (Williston), 1883 (Oncomyia), Thecophora .....        | 47.11 |
| <i>Baruerizodion</i> Papavero, 1970 .....                           | 47.9  |
| <i>bequaerti</i> Curran, 1942, Stylogaster .....                    | 47.13 |
| <i>bermudensis</i> Parsons, 1940, Conops .....                      | 47.1  |
| <i>biannulata</i> (Say), 1823 (Myopa), Stylogaster .....            | 47.13 |
| <i>bicolor</i> Kröber, 1915, Physocephala .....                     | 47.7  |
| <i>bilineata</i> Van Duzes, 1927, Zodion.....                       | 47.12 |
| <i>bimacula</i> (Curran), 1933 (Zodion), Thecophora .....           | 47.11 |
| <i>bimaculata</i> Kröber, 1915, Physocephala .....                  | 47.7  |
| <i>bimaculata</i> Williston, 1888, Tropicomyia .....                | 47.7  |
| <i>bipunctata</i> (Macquart), 1843 (Conops), Physocephala .....     | 47.7  |
| <i>bistria</i> (Walker), 1843 (Myopa), Zodion .....                 | 47.12 |
| <i>brachyrrhynchus</i> , authors, Physocephala .....                | 47.6  |
| <i>brachyrrhynchus</i> (Macquart), 1843 (Conops), Physoconops ..... | 47.4  |
| <i>brasiliensis</i> Kröber, 1915, Physocephala .....                | 47.7  |
| <i>brasiliensis</i> Kröber, 1939, Zodion .....                      | 47.11 |
| <i>brevirostris</i> (Van Duzee), 1927 (Oncomyia), Thecophora .....  | 47.11 |
| <i>brevistriatum</i> Kröber, 1929, Zodion .....                     | 47.11 |
| <i>breviventris</i> Aldrich, 1930, Stylogaster .....                | 47.13 |
| <i>brunneosericeus</i> Kröber, 1937, Conops .....                   | 47.2  |
| <i>brunnipes</i> Kröber, 1927, Physocephala .....                   | 47.7  |
| <i>buccalis</i> Van Duzee, 1927, Physocephala .....                 | 47.8  |
| <i>bulbirostris</i> (Loew), 1853 (Conops), Physoconops .....        | 47.4  |



|  |       |
|--|-------|
| <i>canescens</i> Parsons, 1940, Zodion .....                     | 47.11 |
| <i>carbonarius</i> (Bigot), 1887 (Conops), Physocephala .....    | 47.8  |
| <i>cayennensis</i> (Macquart), 1843 (Conops), Physocephala ..... | 47.7  |
| <i>Ceratoconops</i> Camras, 1955 .....                           | 47.2  |
| <i>confusa</i> (Westwood), 1852 (Stylomyia), Stylogaster .....   | 47.13 |
| <i>connectens</i> Camras, 1955, Physoconops .....                | 47.4  |
| Conopinae .....  | 47.1  |
| Conopini .....   | 47.1  |
| Conops Linnaeus, 1758 .....                                      | 47.1  |
| <i>costaricensis</i> Kröber, 1927 (Conops), Physoconops .....    | 47.4  |
| <i>costaricensis</i> Kröber, 1937, Zodion .....                  | 47.11 |
| <i>costatus</i> (Fabricius), 1805 (Conops), Physoconops .....    | 47.3  |
| <i>?crudus</i> (Walker), 1849 (Conops), Physoconops .....        | 47.4  |
| <i>cubanus</i> Parsons, 1940, Physoconops .....                  | 47.4  |
| <i>currani</i> Aldrich, 1930, Stylogaster .....                  | 47.13 |
| Dalmanniinae .....   | 47.9  |
| <i>decorata</i> Aldrich, 1930, Stylogaster .....                 | 47.14 |
| <i>dibaphus</i> Kröber, 1915, Zodion .....                       | 47.12 |
| <i>Diconops</i> Camras, 1957 .....                               | 47.2  |
| <i>dimidiata</i> (Walker), 1852 (Conops), Physocephala .....     | 47.7  |
| <i>dimiatipennis</i> (Sichel), 1862 (Conops), Physocephala ..... | 47.9  |
| <i>discalis</i> Williston), 1892 (Conops), Physoconops .....     | 47.5  |
| <i>Eccemyia</i> , error .....                                    | 47.10 |
| <i>elongata</i> Camras, 1963, Stylogaster .....                  | 47.14 |
| <i>ephippium</i> (Macquart), 1843 (Conops), Physocephala .....   | 47.9  |
| <i>ethiopa</i> Townsend, 1897, Stylogaster .....                 | 47.14 |
| <i>fairchildi</i> Camras, 1957, Physocephala .....               | 47.7  |
| <i>fasciata</i> Aldrich, 1930, Stylogaster .....                 | 47.14 |
| <i>fenestrata</i> Coquillett, 1902, Myopa .....                  | 47.10 |
| <i>fenestratus</i> (Kröber), 1915 (Conops), Physoconops .....    | 47.4  |
| <i>fidelis</i> Monteiro, 1960, Stylogaster .....                 | 47.14 |
| <i>flaviceps</i> (Macquart), 1843 (Conops), Physocephala .....   | 47.9  |
| <i>flavifrons</i> (Walker), 1849 (Conops), Physocephala .....    | 47.7  |
| <i>flavipenne</i> Bigot, 1827, Zodion .....                      | 47.12 |
| <i>flavocaudatum</i> Bigot, 1837, Zodion .....                   | 47.12 |
| <i>flavostriatum</i> Camras, 1953, Zodion .....                  | 47.12 |
| <i>formosus</i> (Kröber), 1915 (Conops), Physoconops .....       | 47.5  |
| <i>foxi</i> (Van Duzee), 1927 (Conops), Physoconops .....        | 47.6  |
| <i>fraterculus</i> (Van Duzee), 1927 (Conops), Physoconops ..... | 47.6  |
| <i>frontalis</i> (Van Duzee), 1934 (Oncomyia), Thecophora .....  | 47.11 |



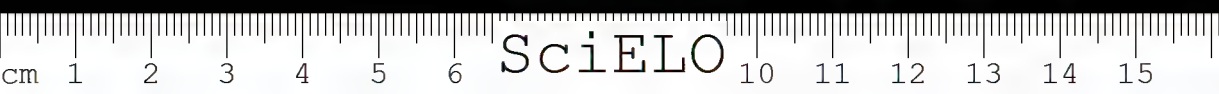


|   |       |
|---|-------|
| fronto (Williston), 1885 (Conops), Physoconops .....      | 47.5  |
| fulvifrons Say, 1823, Zodion .....                        | 47.12 |
| furcillata (Williston), 1882 (Conops), Physocephala ..... | 47.7  |
| geijskesi Curran, 1942, Stylogaster .....                 | 47.14 |
| geminatus Camras, 1957, Conops .....                      | 47.2  |
| gilmorei Camras, 1955, Physoconops .....                  | 47.6  |
| <i>Gonirhynchus</i> Rondani, 1856 .....                   | 47.9  |
| gracilianus Camras, 1955, Physoconops .....               | 47.4  |
| gracilior (Kröber), 1915 (Conops), Physoconops .....      | 47.4  |
| gracilis (Williston), 1885 (Conops), Physoconops .....    | 47.4  |
| grandis (Williston), 1892 (Conops), Physoconops .....     | 47.4  |
| grisescens Kröber, 1939, Zodion .....                     | 47.12 |
| guianicus (Curran), 1934 (Conops), Physoconops .....      | 47.4  |
| <i>guyanicus</i> Aczél, 1950, Physoconops (error) .....   | 47.4  |
| Gyroconops Camras, 1955 .....                             | 47.3  |
| haitiensis (Parsons), 1940 (Occemyia), Thecophora .....   | 47.10 |
| hermanni (Kröber), 1915 (Conops), Physoconops .....       | 47.3  |
| hirtinervis Lopes & Monteiro, 1959, Stylogaster .....     | 47.14 |
| <i>horvathi</i> Szilády, 1928, Stylogaster .....          | 47.15 |
| <i>humeralis</i> Van Duzee, 1927, Physocephala .....      | 47.8  |
| indistincta Aldrich, 1930, Stylogaster .....              | 47.14 |
| infuscatus Camras, 1955, Physoconops .....                | 47.6  |
| inhabilis (Walker), 1849 (Conops), Physocephala .....     | 47.7  |
| inornatus (Williston), 1892 (Conops), Physoconops .....   | 47.6  |
| intermedium Banks, 1916, Zodion .....                     | 47.12 |
| jactata Lopes & Monteiro, 1959, Stylogaster .....         | 47.14 |
| Kroeberoconops Camras, 1955 .....                         | 47.3  |
| lancei Monteiro, 1960, Stylogaster .....                  | 47.14 |
| <i>lativentre</i> Graenicher, 1910, Zodion .....          | 47.12 |
| lepida Lopes & Monteiro, 1959, Stylogaster .....          | 47.14 |
| <i>leucostoma</i> Williston, 1885, Zodion .....           | 47.12 |
| longicornis Lopes, 1937, Stylogaster .....                | 47.14 |
| longistylus (Kröber), 1915 (Conops), Physoconops .....    | 47.3  |
| lopesi Camras, 1957, Stylogaster .....                    | 47.14 |
| <i>loraria</i> (Loew), 1866 (Oncomyia), Thecophora .....  | 47.11 |
| <i>lucida</i> Van Duzee, 1931, Physocephala .....         | 47.7  |
| lugubris (Macquart), 1835 (Conops), Physocephala .....    | 47.9  |
| macrura Lopes, 1938, Stylogaster .....                    | 47.14 |
| maculiventris Kröber, 1915, Zodion .....                  | 47.12 |

|  |       |
|--|-------|
| <i>magnus</i> (Williston), 1892 (Conops), Physoconops .....        | 47.4  |
| <i>Mallochoconops</i> Camras, 1955 .....                           | 47.2  |
| <i>maurus</i> (Walker), 1849 (Conops), Physocephala .....          | 47.7  |
| <i>maxima</i> Giglio-Tos, 1893, Physocephala .....                 | 47.9  |
| <i>melanopoda</i> (Williston), 1885 (Oncomyia), Thecophora .....   | 47.10 |
| <i>mexicanus</i> (Kröber), 1915 (Conops), Physoconops .....        | 47.5  |
| <i>minuta</i> Townsend, 1897, Stylogaster .....                    | 47.14 |
| <i>murielae</i> Camras, 1967, Stylogaster .....                    | 47.14 |
| <i>Myopa</i> Fabricius, 1775 .....                                 | 47.9  |
| <i>Myopinae</i> .....  | 47.9  |
| <i>nanellum</i> Loew, 1866, Zodion .....                           | 47.11 |
| <i>Neozodion</i> Szilády, 1926 .....                               | 47.10 |
| <i>nervosa</i> Kröber, 1915, Physocephala .....                    | 47.8  |
| <i>nigricoxa</i> Camras, 1967, Stylogaster .....                   | 47.14 |
| <i>nigrifacies</i> (Bigot), 1887 (Conops), Physocephala .....      | 47.8  |
| <i>nigrifrons</i> Lopes, 1937, Stylogaster .....                   | 47.14 |
| <i>nigripes</i> (Camras), 1945 (Occemyia), Thecophora .....        | 47.11 |
| <i>nigromarginatus</i> (Kröber), 1915 (Conops), Physoconops .....  | 47.6  |
| <i>nitens</i> Camras, 1955, Physoconops .....                      | 47.6  |
| <i>nobilis</i> Williston, 1892, Conops .....                       | 47.2  |
| <i>obliquefasciatum</i> (Macquart), 1846 (Myopa), Zodion .....     | 47.12 |
| <i>obscuripennis</i> (Williston), 1882 (Conops), Physoconops ..... | 47.6  |
| <i>obscurum</i> Banks, 1916, Zodion .....                          | 47.12 |
| <i>Occemya</i> Robineau-Desvoidy, 1853 .....                       | 47.10 |
| <i>Occemyia</i> , emend. ....                                      | 47.10 |
| <i>occidentalis</i> (Walker), 1849 (Zodion), Thecophora .....      | 47.11 |
| <i>occidentale</i> Banks, 1916, Zodion .....                       | 47.12 |
| <i>ocellatus</i> (Giglio-Tos), 1892 (Conops), Physoconops .....    | 47.3  |
| <i>ochreipes</i> (Bigot), 1887 (Conops), Physocephala .....        | 47.8  |
| <i>Oncomyia</i> , emend. ....                                      | 47.10 |
| <i>ornatifrons</i> (Kröber), 1915 (Conops), Physoconops .....      | 47.6  |
| <i>ornatipes</i> Kröber, 1914, Stylogaster .....                   | 47.15 |
| <i>ornatus</i> Williston, 1892, Conops .....                       | 47.2  |
| <i>Pachyconops</i> Camras, 1955 .....                              | 47.4  |
| <i>pallidetinctum</i> Kröber, 1939, Parazodion .....               | 47.9  |
| <i>pallidicinctum</i> Aczél, 1950, Parazodion (error) .....        | 47.9  |
| <i>palliditarsis</i> Kröber, 1929, Zodion .....                    | 47.2  |
| <i>pallidum</i> Kröber, 1929, Zodion .....                         | 47.11 |
| <i>pallifrons</i> (Coquillett), 1902 (Conops), Physoconops .....   | 47.4  |
| <i>pallipes</i> (Eymelt), 1942 (Aconops), Physoconops .....        | 47.4  |
| <i>palpalis</i> (Robertson), 1901 (Zodion), Robertsonomyia .....   | 47.10 |

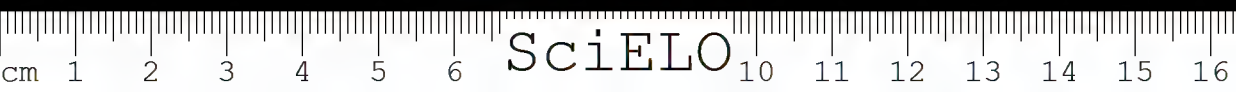
|   |            |
|---|------------|
| <i>palpifrons</i> , authors. Physoconops .....                    | 47.4       |
| <i>panamensis</i> Aldrich, 1930, Stylogaster .....                | 47.15      |
| <i>Parazodion</i> Kröber, 1927 .....                              | 47.9       |
| <i>parsonsi</i> Camras, 1955, Physoconops .....                   | 47.5       |
| <i>parvus</i> (Williston), 1892 (Conops), Physoconops .....       | 47.3       |
| <i>pectinata</i> Aldrich, 1930, Stylogaster .....                 | 47.15      |
| <i>perbellum</i> Kröber, 1939, Physoconops .....                  | 47.3       |
| <i>perlongum</i> Coquillett, 1902, Zodion .....                   | 47.12      |
| <i>peruviana</i> Aldrich, 1930, Stylogaster .....                 | 47.15      |
| <i>peruvianum</i> Kröber, 1915, Zodion .....                      | 47.12      |
| <i>peruvianus</i> Camras, 1955, Physoconops .....                 | 47.6       |
| <i>Physocephala</i> Schiner, 1861 .....                           | 47.7       |
| <i>Physocephalini</i> .....                                       | 47.7       |
| <i>Physoconops</i> Szilády, 1926 .....                            | 47.3, 47.5 |
| <i>picipes</i> Kröber, 1915, Physocephala .....                   | 47.8       |
| <i>piceiventris</i> (Wulp), 1883 (Conops), Physocephala .....     | 47.7       |
| <i>pictifrons</i> (Kröber), 1915 (Conops), Physoconops .....      | 47.5       |
| <i>pictipennis</i> Williston, 1885, Myopa .....                   | 47.10      |
| <i>pictum</i> Schiner, 1868, Zodion .....                         | 47.12      |
| <i>pictus</i> (Fabricius), 1794 (Conops), Physoconops .....       | 47.5       |
| <i>pilosa</i> Lopes & Monteiro, 1959, Stylogaster .....           | 47.15      |
| <i>pilosum</i> Kröber, 1939, Parazodion .....                     | 47.9       |
| <i>plaumanni</i> Camras, 1957, Scatocemyia .....                  | 47.10      |
| <i>pruinsum</i> Szilády, 1926, Neozodion .....                    | 47.10      |
| ? <i>pruinus</i> Bigot, 1887, Conops .....                        | 47.2       |
| <i>pulchellus</i> (Kröber), 1915 (Conops), Physoconops .....      | 47.5       |
| <i>pulchra</i> Coquillett, 1902, Myopa .....                      | 47.10      |
| <i>pulchripennis</i> Kröber, 1927, Physocephala .....             | 47.8       |
| <i>pulvillatus</i> Aczél, 1950, Physoconops (error) .....         | 47.5       |
| <i>pulvillus</i> Eymelt, 1942, Physoconops .....                  | 47.5       |
| <i>punctipennis</i> Kröber, 1915, Zodion .....                    | 47.12      |
| <i>punctum</i> (Bigot), 1887 (Conops), Physocephala .....         | 47.9       |
| <i>pygmaeum</i> Williston, 1885, Zodion .....                     | 47.11      |
| <i>ramondi</i> (Bigot), 1857 (Conops), Physoconops .....          | 47.5       |
| <i>reclusum</i> Banks, 1916, Zodion .....                         | 47.12      |
| <i>rectinervis</i> Aldrich, 1930, Stylogaster .....               | 47.15      |
| <i>rectinervis</i> Aldrich of Lopes, 1937, Stylogaster .....      | 47.14      |
| <i>rettenmeyeri</i> Camras, 1967, Stylogaster .....               | 47.15      |
| <i>Robertsonomyia</i> Malloch, 1919 .....                         | 47.10      |
| <i>rossi</i> Camras, 1957, Zodion .....                           | 47.12      |
| <i>rubicundulus</i> (Van Duzee), 1927 (Conops), Physoconops ..... | 47.6       |
| <i>rubida</i> Van Duzee, 1934, Physocephala .....                 | 47.8       |
| <i>rubrifrons</i> (Robineau-Desvoidy), 1830 (Myopa), Zodion ..... | 47.12      |

|  |       |
|--|-------|
| <i>rufipennis</i> (Macquart), 1843 (Conops), Physoconops .....   | 47.3  |
| <i>rufithorax</i> Kröber, 1915, Physocephala .....               | 47.8  |
| <i>rufus</i> Williston, 1892, Physocephala .....                 | 47.7  |
| <i>rufus</i> (Williston), 1892 (Conops), Physoconops .....       | 47.5  |
| <i>sayi</i> Banks, 1916, Zodion .....                            | 47.12 |
| <i>scapularis</i> (Adams), 1903 (Zodion), Robertsonomyia .....   | 47.10 |
| <i>Scatocemyia</i> Camras, 1957 .....                            | 47.10 |
| <i>schmidtii</i> Kröber, 1937, Parazodion .....                  | 47.9  |
| <i>segethi</i> (Rondani), 1863 (Conops), Physocephala .....      | 47.8  |
| <i>semifuscus</i> (Banks), 1916 (Conops), Physoconops .....      | 47.5  |
| <i>sericea</i> (Olivier), 1791 (Conops), Physocephala .....      | 47.9  |
| <i>sericeus</i> Walker, 1852, Conops .....                       | 47.2  |
| <i>shannoni</i> Camras, 1955, Physoconops .....                  | 47.5  |
| <i>shannoni</i> Lopes & Monteiro, 1959, Stylogaster .....        | 47.15 |
| <i>Shannonconops</i> Camras, 1955 .....                          | 47.6  |
| <i>simis</i> Camras, 1953, Zodion .....                          | 47.13 |
| <i>simulans</i> Van Duzee, 1927, Physocephala .....              | 47.8  |
| <i>soror</i> (Kröber), 1915 (Conops), Physocephala .....         | 47.7  |
| <i>sororcula</i> (Williston), 1892 (Conops), Physocephala .....  | 47.7  |
| <i>souzai</i> Monteiro, 1960, Stylogaster .....                  | 47.15 |
| <i>speciosa</i> Aldrich, 1930, Stylogaster .....                 | 47.15 |
| <i>spheniformis</i> Camras, 1957, Physocephala .....             | 47.8  |
| <i>Sphenoconops</i> Camras, 1955 .....                           | 47.2  |
| <i>steyskali</i> Papavero, 1970, Baruerizodion .....             | 47.9  |
| <i>stylata</i> , authors, Stylogaster .....                      | 47.13 |
| <i>stylata</i> (Fabricius), 1805 (Conops), Stylogaster .....     | 47.15 |
| <i>Stylogaster</i> Macquart, 1835 .....                          | 47.13 |
| <i>Stylogastrinae</i> .....                                      | 47.13 |
| <i>Stylomyia</i> Westwood, 1852 .....                            | 47.13 |
| <i>stylosa</i> Townsend, 1897, Stylogaster .....                 | 47.15 |
| <i>sylvosus</i> (Williston), 1882 (Conops), Physoconops .....    | 47.3  |
| <i>syrphoides</i> (Blanchard), 1938 (Aconops), Physoconops ..... | 47.3  |
| <i>tarsata</i> Lopes, 1937, Stylogaster .....                    | 47.15 |
| <i>tectura</i> (Adams), 1903 (Myopa), Zodion .....               | 47.12 |
| <i>terminalis</i> (Van Duzee), 1927 (Oncomyia), Thecophora ..... | 47.11 |
| <i>testacea</i> (Wulp), 1883 (Conops), Physocephala .....        | 47.8  |
| <i>texana</i> (Williston), 1882 (Conops), Physocephala .....     | 47.8  |
| <i>thecala</i> Camras, 1957, Physocephala .....                  | 47.8  |
| <i>Thecomyia</i> , error .....                                   | 47.10 |
| <i>Thecophora</i> Rondani, 1845 .....                            | 47.10 |
| <i>travassosi</i> Camras, 1955, Physoconops .....                | 47.5  |
| <i>triangularis</i> Kröber, 1939, Zodion .....                   | 47.13 |

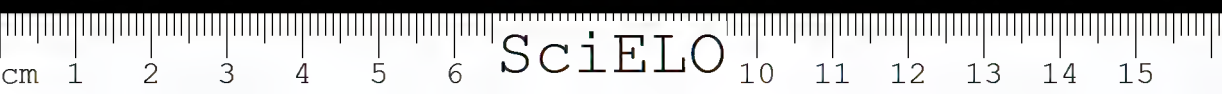


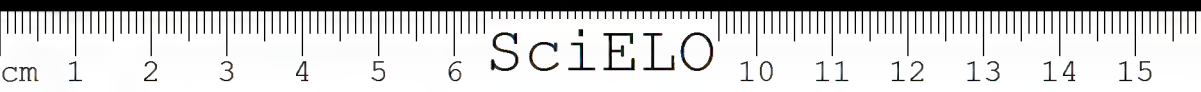


|   |       |
|---|-------|
| <i>trichus</i> Camras, 1957, Conops .....                         | 47.2  |
| <i>tricolor</i> (Bigot), 1887 (Conops), Physocephala .....        | 47.8  |
| <i>Tropidomyia</i> Williston, 1888 .....                          | 47.6  |
| <i>Tropidomyiini</i> .....  | 47.6  |
| <i>unicolor</i> Kröber, 1915, Physocephala .....                  | 47.8  |
| <i>varipes</i> (Kröber), 1915 (Conops), Physoconops .....         | 47.6  |
| <i>velutinus</i> Kröber, 1915, Conops .....                       | 47.2  |
| <i>venusta</i> Parsons, 1940, Physocephala .....                  | 47.8  |
| <i>verus</i> Camras, 1955, Conops .....                           | 47.2  |
| <i>vespiformis</i> Kröber, 1915, Physocephala .....               | 47.8  |
| <i>willistoni</i> Banks, 1916, Myopa .....                        | 47.10 |
| <i>xanthoparcus</i> (Williston), 1882 (Conops), Physoconops ..... | 47.4  |
| <i>xanthops</i> (Williston), 1892 (Conops), Physocephala .....    | 47.7  |
| <i>xanthostomus</i> Banks, 1916, Physoconops (error) .....        | 47.4  |
| <i>zebrinum</i> Bigot, 1887, Zodion .....                         | 47.13 |
| <i>Zodion</i> Latreille, 1796 .....                               | 47.11 |



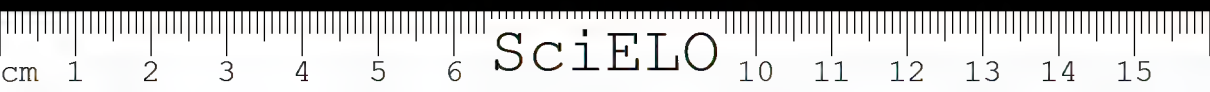
DIVISION SCHIZOPHORA



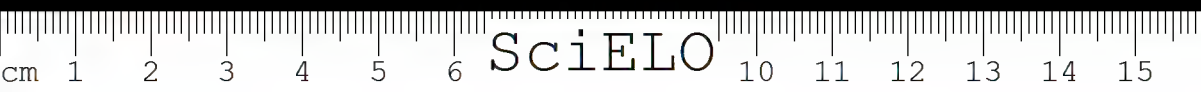


SciELO

SECTION ACALYPTRATAE





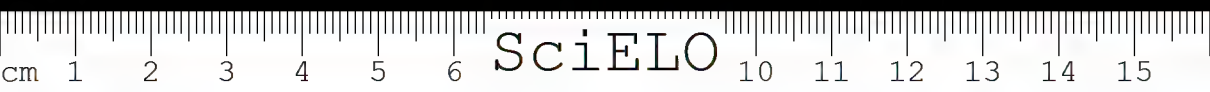


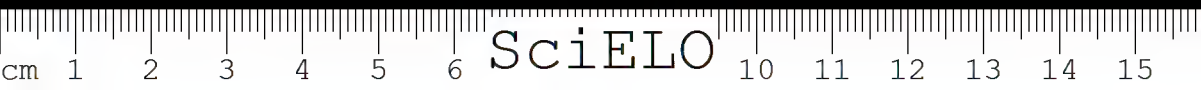
SciELO

SUPERFAMILY MICROPEZOIDEA

Family Micropezidae

Family Neriidae





SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

48

## FAMILY MICROPEZIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D.C.*

The long-legged or stilt-flies are of worldwide distribution but predominantly tropical. The biology of but few species is known (Steyskal, 1964); the indications are that the larvae are either saprophagous or that they may in some cases feed upon living plant tissue. The Neriidae (see fascicle 49), are here considered a distinct family and the Micropezidae are considered to comprise three subfamilies: Calobatinae, Micropezinae, and Taenipterinae. Only the latter two, and in great part the latter one, are found in the southern parts of the Americas. Aczél (1949a, 1951) revised the Argentinian species of the family. The latest general revision is by Hennig (1934-1936) and the latest previous catalogue for our regions is by Aczél (1949b).

A chart of the accumulated numbers of species plotted against dates of original description shows a very steep rise since 1910, but after 1940 so little work has been done in this family that no forecast of its taxonomic future and probable total eventual number of species can be made other than to say that many species apparently still await description. Most of the described species are still known only from their type-localities.

## Subfamily MICROPEZINAE

## Genus CRYOGONUS Cresson

CRYOGONUS Cresson, 1926:264. Type-species, *reedi* Cresson (orig. des.) = *formicarius* (Rondani).

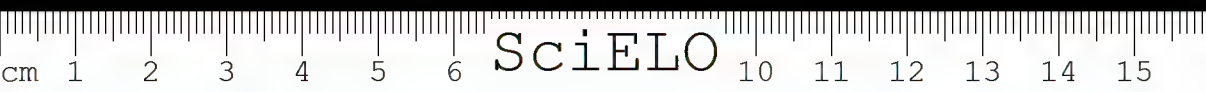
*Chrysogonus*, error.

*Cressonius* Aczél, 1949a:227 (as subgenus). Type-species, *descolei* Aczél (orig. des.). N. SYN.

*Cressoninus*, lapsus or emendation.

*Henniginus* Aczél, 1949a:227 (as subgenus). Type-species *Micropeza gibbivertex* Enderlein (orig. des.). N. SYN.

DESCOLEI Aczél, 1949a:228, fig. 1, pl. I, fig. A. Type-locality: Argentina, Rio Negro, Colorado. Distr. — Argentina.





- FOMICARIUS (Rondani), 1863:42 (*Micropeza*). Type-locality: "Chile". Distr. — Chile (Valparaiso).  
*reedii* Cresson, 1926:264. Type-locality: "Chile".  
 GIBBIVERTEX (Enderlein), 1922:160 (*Micropeza*). Type-locality: Argentina, Mendoza. Distr. — Argentina.

### Genus MICROPEZA Meigen

- Tylos* Meigen, 1800:31. Type-species, *Musca corrigiolata* Linnaeus (Coquillett, 1910:618). Suppressed by I.C.Z.N., 1955:267.  
*Tylos*, emend.  
 MICROPEZA Meigen, 1803:276. Type-species, *Musca corrigiolata* Linnaeus (mon.).  
*Neriocephalus* Enderlein, 1922:160. Type-species, *Micropeza appendiculata* Schiner (orig. des.).  
*Metopobrachia* Enderlein, 1922:161. Type-species, *Micropeza obscura* Bigot (orig. des.).  
*Chiopeza* Enderlein, 1922:162. Type-species, *Calobata pectoralis* Wiedemann (orig. des.).  
*Neotylus* Hendel, 1932:121. Type-species, *Micropeza brasiliensis* Schiner (orig. des.).  
*Neotypus*, error.  
*Protylos* Aczél, 1949a:238 (as subgenus). Type-species, *Micropeza stigmatica* Wulp (orig. des.).  
 More study will be required before a firm subgeneric classification of this genus can be made. It is not feasible to assign many species to the various groups that have been proposed, since the necessary characters are not available from descriptions.  
 ABBREVIATA Cresson, 1926:262. Type-locality: Costa Rica, San Mateo, Higuato. Distr. — Costa Rica.  
 ALBISETA (Czerny), 1932:294 (*Metopobrachia*). Type-locality: Costa Rica, west of San José, farm La Caja. Distr. — Costa Rica. Ref. — Hennig, 1936:201, figs. 11-13.  
 ANNULATA Schiner, 1868:249. Type-locality: "South America" (Venezuela). Distr. — Venezuela, Colombia.  
 APPENDICULATA Schiner, 1868:250. Type-locality: "South America" (Venezuela). Distr. — Venezuela, Ecuador, Peru, Paraguay, Argentina. Refs. — Hendel, 1932:128, figs. 1 (p. 122), 5, 6 (p. 127); Hennig, 1934:71, fig. 17.  
 ARGENTINIENSIS (Aczél), 1949a:244, fig. 5, pl. 1, fig. E (*Tylos*). Type-locality: Argentina, Tucumán, Villa Padre Monti. Distr. — Argentina.  
 ARMIPENNIS (Bezzi), 1924:73, fig. 1 (*Chiopeza*). Type-locality: Brazil, São Paulo. Distr. — Brazil. Ref. — Albuquerque, 1966:39-45, figs. 1-18.  
 ATRISETA (Czerny), 1932:294 (*Metopobrachia*). Type-locality: Costa Rica, San José. Distr. — Costa Rica.  
 BIANNULATA Cresson, 1926:261. Type-locality: Costa Rica, San Mateo, Higuato. Distr. — Costa Rica.  
 BILINEATA Wulp, 1897:366. Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico, Costa Rica.

- BOGOTANA (Enderlein), 1922:162 (*Chiopeza*). Type-locality: Colombia, Bogotá. Distr. — Colombia.
- BRASILIENSIS Schiner, 1868:249. Type-locality: Brazil and Colombia. Distr. — Panama, Venezuela, Colombia, Brazil. Ref. — Hendl, 1932:17, figs. 3 (p. 122), 1, 8 (p. 127) (specimens from Venezuela).
- BREVIRADIALIS (Hennig), 1936:208 (*Tylos*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama.
- COLUMBIANA (Enderlein), 1922:161 (*Metopobrachia*). Type-locality: Colombia, Bogotá and Ibagué. Distr. — Colombia.
- DISTENTA Cresson, 1926:262. Type-locality: Panama, Taboga. Distr. — Panama.
- DISTINCTA Schiner, 1868:250. Type-locality: Venezuela. Distr. — Venezuela. Ref. — Hendl, 1932:128, fig. (p. 122), figs. 2, 7 (p. 127).
- DIVISA (Wiedemann), 1830:540 (*Calobata*). Type-locality: "Mexico". Distr. — Mexico.
- DORSALIS (Hennig), 1936:204 (*Tylosq.* Type-locality: Paraguay, "Hohenau". Distr. — Paraguay.
- FLAVA (Hennig), 1936:204 (*Tylos*). Type-locality: Peru, Chanchamayo. Distr. — Peru.
- INCISA Wiedemann, 1830:547. Type-locality: "Brazil". Distr. — Brazil.
- LILLOI (Aczél), 1949a:253, fig. 3A (p. 239), fig. 7B (p. 251), fig. 8; pl. 2, fig. F (*Tylos*, subg. *Protylos*). Type-locality: Argentina, Tucumán, San Pedro de Colalao. Distr. — Argentina.
- LIMBATA Röder, 1885:347. Type-locality: West Indies, "Puerto Rico". Distr. — West Indies (Puerto Rico).
- LUTEIVENTRIS (Czerny), 1932:294 (*Metopobrachia*). Type-locality: Brazil, on shipboard Pará [Belém] — Manaus. Distr. — Peru, Brazil, ?Panama.
- MACULICEPS (Czerny), 1932:295 (*Metopobrachia*). Type-locality: Peru, Bella Vista near Callao. Distr. — Peru, Argentina. Ref. — Aczél, 1951:568.
- MACULIDORSUM (Enderlein), 1922:161 (*Metopobrachia*). Type-locality: Brazil, Rio Grande do Sul, Pôrto Alegre. Distr. — Brazil.
- MARGINATA (Hennig), 1936:206 (*Tylos*). Type-locality: Argentina, Salta. Distr. — Argentina. Ref. — Aczél, 1951: 559, fig. 18.  
*limbata* Enderlein, 1922:162 (*Metopobrachia*). Type-locality: Argentina, Salta.
- NIGRICORNIS Wulp, 1897:366. Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico.
- NIGRINA Wulp, 1883:50. Type-locality: "Argentina". Distr. — Paraguay, Argentina. Ref. — Aczél, 1949a:258, fig. 9, pl. 2, fig. G.  
*fiebrigi* Enderlein, 1922:160 (*Neriocephalus*). Type-locality: "Paraguay".
- OBSCURA Bigot, 1886:387. Type-locality: "Mexico". Distr. — Mexico, Costa Rica.

- PALLENS** Wiedemann, 1830: 547. Type-locality: "Brazil". Distr. — Costa Rica, Brazil.
- PECTORALIS** (Wiedemann), 1830:540 (*Calobata*). Type-locality: "Mexico". Distr. — Mexico.  
*occipitalis* Wulp, 1897:365. Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas.
- PERUANA** (Hennig), 1936:208 (*Tylos*). Type-locality: Peru, Pichis, Puerto Bermúdez. Distr. — Peru, Argentina. Ref. — Aczél, 1951:562, fig. 19, pl. 3, fig. L.
- PLANULA** Cresson, 1926:264. Type-locality: Venezuela, Cariaquito. Distr. — Venezuela.
- PRODUCTA** Walker, 1849:1056. Type-locality: U.S.A., Georgia. Distr. — U.S.A., West Indies (Cuba), Panama.
- RECTA** Cresson, 1926:261. Type-locality: Panama, Portobelo. Distr. — Panama.
- REUNIENS** (Hennig), 1936:205, fig. 14 (*Tylos*). Type-locality: Guatemala, Moca, Guatalon. Distr. — Guatemala.
- RUFICEPS** Wulp, 1897:365. Type-locality: Mexico, northern Sonora. Distr. — Mexico, U.S.A.  
*flaviventris* Cole, 1923:477, fig. 16 (p. 481). Type-locality: Mexico, Baja California, Mulegé.
- SAGITTIFER** Cresson, 1926:263. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil.
- SIMILIS** (Aczél), 1949a:273, figs. 11C (p. 267), 12, pl. 2, fig. I (*Tylos*, subg. *Protylos*). Type-locality: Argentina, Mendoza, Lavalle. Distr. — Argentina.
- STIGMATICA** Wulp, 1897:366, pl. 9, figs. 17, 17a. Type-localities: Mexico, northern Sonora, Jalisco (San Blas), Veracruz (Atoyac and Medellín) Córdoba (San Lorenzo), Guerrero (Dos Arroyos). Distr. — U.S.A., Mexico, Central America, Brazil, Bolivia, Paraguay, Argentina.  
*longiceps* Hendel, 1932:123, fig. 5 (p. 122), fig. 3 (p. 127). Type-locality: Paraguay, Asunción, Trinidad.
- SUBRECTA** Cresson, 1926:161. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- SUFFLAVA** (James), 1954:248, fig. 1 (*Tylos*, subg. *Neriocephalus*). Type-locality: Mexico, Michoacán, Cerro Tancitaro. Distr. — Mexico. N. COMB.
- TABERNILLA** Cresson, 1926:263. Type-locality: Panama, Canal Zone, Tabernilla. Distr. — Honduras, Panama.
- TARSALIS** (Aczél), 1949a:249, figs. 6, 7a, pl. 1, fig. E (*Tylos* s.s.). Type-locality: Argentina, Salta, Cerro San Bernardino. Distr. — Argentina.
- TRIANNULATA** (Czerny), 1932:296 (*Metopobrachia*). Type-locality: Costa Rica, San José, farm La Caja. Distr. — Costa Rica.
- VENTRALIS** Cresson, 1930:356. Type-locality: Mexico, D.F., Tacubaya. Distr. — U.S.A. Mexico.



VERTICALIS Cresson, 1930:357. Type-locality: West Indies, Cuba, Baracoa.  
Distr. — West Indies (Cuba).

### Subfamily TAENIAPTERINAE

#### Genus CALOSPHEEN Hennig

CALOSPHEEN Hennig, 1934:310. Type-species, *Tanypoda strophium* Enderlein (orig. des.).

AURISTRIGATUS Hennig, 1934:312. Type-locality: Bolivia, Mapiri, San Carlos.  
Distr. — Bolivia.

MERIDIONALIS Hennig, 1934:312. Type-locality: "Bolivia". Distr. — Bolivia.

PLEURALIS (Cresson), 1930:321 (*Rainieria*). Type-locality: Colombia, San Lorenzo Mts., Vista Nieve. Distr. — Colombia.

PRINCEPS (Schiner), 1868:251 (*Calobata*). Type-locality: "South America" (Venezuela). Distr. — Venezuela.

STROPHIUM (Enderlein), 1922:203 (*Tanypoda*). Type-locality: Colombia, Cordillera, "tierra templada". Distr. — Colombia, Venezuela.

#### Genus CARDIACEPHALA Macquart

CARDIACEPHALA Macquart, 1843:399 (sep. p. 242). Type-species, *Musca longipes* Fabricius (orig. des.) = *guttata* (Walker).

GUTTATA (Walker), 1852:394 (*Calobata*). Type-locality: "Brazil". Distr. — Guyana, French Guiana, Surinam, Brazil. Ref. — Steyskal, 1967:79 (synonymy).

*longipes* Fabricius, 1787:348 (*Musca*; preocc. Scopoli, 1763). Type-locality: "Cayenne" (= French Guiana).

*triluminata* Cresson, 1930:330 (nom. nov. for *Musca longipes* Fabricius).

SECUNDA Hennig, 1935:52; 1934: pl. 3, fig. 2 (without differentiating statement). Type-locality: Ecuador, Cordillera. Distr. — Ecuador.

#### Genus CHAETOTYLUS Hendel

CHAETOTYLUS Hendel, 1932:130. Type-species, *obstitus* Hendel (mon.).

OBSTITUS Hendel, 1932:132. Type-locality: Bolivia, west of Santa Cruz de la Sierra. Distr. — Bolivia.

#### Genus CLIQBATA Enderlein

CLIQBATA Enderlein, 1923:540. Type-species, *Calobata guttipennis* Wiedemann (orig. des.).

BIGUTTATA (Enderlein), 1922:205 (*Tanypoda*). Type-locality: Colombia, "tierra templada". Distr. — Colombia.

DIADEMA (Wiedemann), 1830:533 (*Calobata*). Type-locality: "Brazil". Distr. — Colombia, Brazil. Ref. — Hennig, 1935:41.

*nigrifilum* Walker, 1852:393 (*Calobata*). Type-locality: "South America".

DIADEMOIDES Hendel, 1933:62. Type-locality: Brazil, Bahia. Distr. — Brazil.

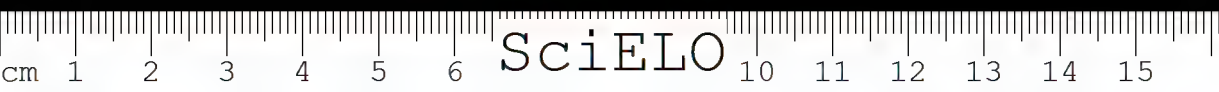


- EQUES (Schiner), 1868:251 (*Calobata*). Type-locality: "South America" (Venezuela). Distr. — Venezuela, Ecuador, Bolivia.
- FENESTRATA (Czerny), 1932:273 (*Rainieria*). Type-locality: Brazil, São Paulo, "Alto da Serra" (= Paranapiacaba). Distr. — Brazil.
- GUTTIPENNIS (Wiedemann), 1830:538 (*Calobata*). Type-locality: "Brazil". Distr. — Brazil, Paraguay.
- guttata* Enderlein, 1922:205 (*Tanypoda*). Type-locality: Brazil, Espírito Santo.
- GUTTULIPENNIS (Enderlein), 1923:541 (*Scipopus*). Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil, Paraguay.
- pellucida* Czerny, 1932:275 (*Rainieria*). Type-locality: Brazil, Rio Grande do Sul.
- LUNARIS (Wiedemann), 1830:541 (*Calobata*). Type-locality: "Brazil". Distr. — Brasil.
- melanopus* Bigot, 1886:379 (*Taeniptera*). Type-locality: "Brazil".
- MUELLERI (Enderlein), 1922:202 (*Tanypoda*). Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil.
- ORCINA (Wiedemann), 1830:541 (*Calobata*). Type-locality "Brazil". Distr. — Brazil, Paraguay.
- RAPTIMANUS (Bezzi), 1924:75, fig. 2 (*Scipopus*). Type-locality: Brazil, São Paulo. Distr. — Brazil.
- TRIMACULATA (Czerny), 1932:275 (*Rainieria*). Type-locality: Brazil, Santa Catarina, Humboldt [Hansa] (= Corupá); San Vicente (= São Vicente, State of São Paulo, near Santos); Rio Grande do Sul, Santa Cruz; and Santos (State of São Paulo). Note: Holotype not designated. Distr. — Brazil. Ref. — Steyskal, 1967:79 (synonymy).

#### Genus GRALLIPEZA Rondani

- GRALLIPEZA Rondani, 1850:180. Type-species, *Calobata unimaculata* Macquart (orig. des.).
- Systellapha* Enderlein, 1922:189. Type-species, *ornatithorax* Enderlein (orig. des.).
- This genus is in need of revision and most records must be doubted; therefore, except for *G. unifasciata*, only type-localities are cited.
- ACUTIVITTA (Hendel), 1936:67 (*Systellapha*). Type-locality: Brazil, Pará, Taperinha. Distr. — Brazil.
- AFFINIS Hennig, 1934:308, pl. 1, fig. 27. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Bolivia.
- AMAZONICA (Enderlein), 1922:192 (*Systellapha*). Type-locality: Brazil, Upper Amazon area. Distr. — Brazil.
- ARCUATA Hennig, 1934:303. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.
- AURIORNATA Hennig, 1934:310. Type-locality: "Loja" (almost certainly town and province in Ecuador). Distr. — Ecuador.

- BARACOA (Cresson), 1926:265 (*Systellapha*). Type-locality: West Indies, Cuba, Baracoa. Distr. — West Indies (Cuba). Ref. — Steyskal, 1967:82, fig. 8.
- CALLANGANA (Enderlein), 1922:192 (*Systellapha*). Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Peru.
- CANTATA (Cresson), 1926:266 (*Systellapha*). Type-locality: Brazil, Rio Tefé, Boa Vista do Jaquiri. Distr. — Brazil.
- CRISTULATA (Cresson), 1926:265 (*Systellapha*). Type-locality: Mexico, Veracruz, Córdoba. Distr. — Mexico.
- ECUADORIENSIS (Enderlein), 1922:193 (*Systellapha*). Type-locality: Ecuador, Guayaquil. Distr. — Ecuador.
- ELEGANS Hennig, 1934:309, pl. 1, fig. 20. Type-locality: Bolivia, Mapiri, Sarampiuní. Distr. — Bolivia.
- FLAVICAUDATA (Cresson), 1926:266 (*Systellapha*). Type-locality: West Indies, Montserrat Island. Distr. — West Indies (Montserrat).  
*flavicauda*, error.
- FOOTEI (Cresson), 1926:266 (*Systellapha*). Type-locality: West Indies, Dominica Island (not Santo Domingo = Dominican Republic). Distr. — West Indies (Dominica).
- GRACILIS Hennig, 1934:302. Type-locality: Peru, mouth of Pachitea River. Distr. — Peru.
- HYALOPTERA (Hendel), 1936:66 (*Rainieria*). Type-locality: Brazil, Pará, Belém. Distr. — Brazil.
- IMBECCILLA (Enderlein), 1922:192 (*Systellapha*). Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil.
- MAGNA Hennig, 1934:303. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — Guyana.
- MELLEIA (Williston), 1896:373, pl. 12, fig. 125 (*Calobata*). Type-locality: West Indies, Saint Vincent Island. Distr. — West Indies (Saint Vincent). Ref. — Steyskal, 1967:80.
- NEBULOSA (Loew), 1866:48 (Cent. 7. no. 89) (*Calobata*). Type-locality: U.S.A., Florida. Distr. — U.S.A., West Indies (Haiti), Costa Rica. These latter records, cited by Cresson, 1908:8, need confirmation. Ref. — Steyskal, 1967:83, fig. 7.
- NIGRINOTATA Hennig, 1934:304, pl. 1, fig. 25. Type-locality: Bolivia, Mapiri, Sarampiuní. Distr. — Bolivia.
- OBSCURA Hennig, 1934:300, pl. 1, fig. 24. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Bolivia.
- ORNATTHORAX (Enderlein), 1922:190 (*Systellapha*). Type-locality: Paraguay, Sapucay; southern Brazil. Distr. — Brazil, Paraguay.  
*maculifrons* Czerny, 1931:22 (*Systellapha*). Type-locality: Brazil, São Paulo, Bocaina, Fazenda do Bonito.
- PALLIDEFASCIATA (Maquart), 1855:147 (sep. p. 127), pl. 7, fig. 10 (*Calobata*). Type-locality: "South America". Distr. — South America (more exact locality unknown).



- loewi* Enderlein, 1922:191 (*Systellapha*). Type-locality: "South America".
- PANAMAENSIS (Cresson), 1926:268 (*Systellapha*). Type-locality: Panama, Alhajucla. Distr. — Panama. Note: Not synonym of *G. unifasciata* (F.), as cited by Hennig, 1934:302; type has 2 dorsocentrals and runs in Hennig's key to *G. arcuata* and *G. gracilis*, but differs from each of these.
- PLACIDA (Loew), 1866:49 (Cent. 7, no. 90) (*Calobata*). Type-locality: West Indies, "Cuba". Distr. — West Indies (Cuba). Ref. — Steyskal, 1967:80.
- PLACIDOIDES (Cresson), 1926:265 (*Systellapha*). Type-locality: West Indies, Saint Lucia Island, Castries. Distr. — West Indies (Saint Lucia).
- PLEURITICA (Johnson), 1894:279 (*Calobata*). Type-locality: West Indies, Jamaica, Port Antonio. Distr. — West Indies (Jamaica). N. COMB., from specimen in U.S. National Museum labeled "Jamaica".
- PRONIGRA Hennig, 1934:301. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.
- PSEUDOSIMPLEX Hennig, 1934:309, pl. 1, fig. 26. Type-locality: Bolivia, Mapi, San Carlos. Distr. — Bolivia.
- PULCHRIFRONS (Cresson), 1926:267 (*Systellapha*). Type-locality: Panama, Trinidad Río. Distr. — Panama.
- RUSSULA (Wulp), 1897:370, pl. 9, fig. 22 (*Calobata*). Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico.
- SCURRA (Enderlein), 1922:191 (*Systellapha*). Type-locality: West Indies, "Puerto Rico". Distr. — West Indies (Puerto Rico).
- SIMPLEX (Wiedemann), 1830:542 (*Calobata*). Type-locality: "Brazil". Distr. — Brazil.
- SPINULIGER (Cresson), 1926:267 (*Systellapha*). Type-locality: West Indies, Dominica Island (not Santo Domingo = Dominican Republic). Distr. — West Indies (Dominica).
- SUAVIS (Enderlein), 1922:194 (*Systellapha*). Type-locality: Brazil, Pará, Ilha Marajó, Soure. Distr. — Brazil.
- UNFASCIATA (Fabricius), 1805:262 (*Calobata*). Type-locality: "South America". Distr. — Panama, Colombia, Guyana.
- columbiana* Enderlein, 1922:193 (*Systellapha*). Type-locality: Colombia, Cordillera, "tierra caliente".
- UNIMACULATA (Macquart), 1846:343 (sep. p. 215), pl. 19, fig. 4 (*Calobata*). Type-locality: "Colombia". Distr. — Colombia, Peru, Brazil.
- VICINA Hennig, 1934:305. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — Guyana.

#### Genus HOPLOCHEILOMA Cresson

- HOPLOCHEILOMA Cresson, 1926:272. Type-species, *Musca fasciata* Fabricius (orig. des.) = *fabricii* Steyskal, v.i.
- Gymnosphen* Frey, 1927:71. Type-species, *macropyga* Frey (orig. des.).



FABRICII Steyskal, nom. nov. for *Musca fasciata* Fabricius, 1775. Distr. — U.S.A. (Florida), West Indies (Cuba, Jamaica, Puerto Rico), Brazil.

*fasciata* Fabricius, 1775:781 (*Musca*; preocc. O.F. Mueller 1764). Type-locality: "West Indies".

FERRUGATUM Hennig, 1935:56; 1934: pl. 4, fig. 2 (without differentiating statement). Type-locality: Mexico, Yucatán, Chichén Itzá. Distr. — Mexico.

MACROPYGA (Frey), 1927:71 (*Gymnosphen*). Type-locality: Brazil, Amazonas, Rio Negro. Distr. — Brazil.

MACULOSUM (Loew), 1866:48 (Cent. 7, no. 88) (*Calobata*). Type-locality: West Indies, "Cuba". Distr. — West Indies (Cuba).

NOTITIPENNE Cresson, 1926:272. Type-locality: West Indies, Dominican Republic, San Francisco Mountains. Distr. — West Indies (Dominican Republic).

PERFORATUM (Enderlein), 1922:202 (*Tanypoda*). Type-locality: "Brazil". Distr. — Brazil.

#### Genus MESOCONIUS Enderlein

MESOCONIUS Enderlein, 1922:176. Type-species, *infestus* Enderlein (orig. des.).

AERIPENNIS Enderlein, 1922:180. Type-locality: Ecuador, Baños. Distr. — Ecuador.

ALBIMANUS Enderlein, 1922:180. Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Colombia, Peru, Bolivia.

AURISTRIGATUS Enderlein, 1922:178. Type-locality: "Colombia". Distr. — Colombia.

ENDERLEINI Frey, 1927:72. Type-locality: Colombia, Aguatal and San Antonio. Distr. — Colombia.

FLAVICEPS Enderlein, 1922:178. Type-locality: "Colombia". Distr. — Colombia.

FULVUS Enderlein, 1922:177. Type-locality: Ecuador, Santa Inez. Distr. — Ecuador.

GARLEPPI Enderlein, 1922:177. Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Ecuador, Peru.

HEMITHORAX Frey, 1927:73. Type-locality: Panama, Lino. Distr. — Panama.

INFESTUS Enderlein, 1922:179. Type-locality: Peru, Cuzco, Callanga, Pinipini Valley; Bolivia, Songo, San Antonio. Distr. — Peru, Bolivia.

OBTUSICONUS Enderlein, 1922:179. Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Peru.

RUFITHORAX Enderlein, 1922:178. Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Peru.

UJHELYIANUS Enderlein, 1922:177. Type-locality: Colombia, Sierra San Lorenzo. Distr. — Colombia.



## Genus METASPHEN Frey

- METASPHEN Frey, 1927:71. Type-species, *vigilans* Frey (orig. des.).  
VIGILANS Frey, 1927:71. Type-locality: Brazil, Amazonas, Taracúá, Rio  
Uaupés, and Manaus. Distr. — Brazil.

## Genus PARASPHEN Enderlein

- PARASPHEN Enderlein, 1922:226. Type-species, *amazonicus* Enderlein (orig.  
des.).  
AMAZONICUS Enderlein, 1922:226. Type-locality: Brazil, Upper Amazon re-  
gion. Distr. — Guyana, Brazil.  
var. RUFICAUDA Curran, 1932:2. Type-locality: Guyana, Bartica district,  
Kartabo.  
FRONTALIS Cresson, 1930:336. Type-locality: Guyana, Bartica district, Kar-  
tabo. Distr. — Guyana, Brazil.

## Genus PLOCOSCELUS Enderlein

- PLOCOSCELUS Enderlein, 1922:226. Type-species, *Calobata arthritica* Wiede-  
mann (orig. des.).  
*Rhoecus* Enderlein, 1922:227. Type-species, *valgus* Enderlein (orig. des.)  
= *niger* (Schiner).  
ARTHITICUS (Wiedemann), 1830:546 (*Calobata*). Type-locality: not cited.  
Distr. — Mexico to Panama, Surinam, Venezuela, Colombia (Isla  
Gorgona), ?Peru.  
*myrmex* Schiner, 1868:254 (*Cardiacephala*). Type-locality: "South  
America".  
*fuscimanus* Czerny, 1931:25. Type-locality: Costa Rica, Surrubres.  
BREVIPENNIS (Walker), 1852:389 (*Calobata*). Type-locality: "Brazil". Distr.  
— Surinam, Venezuela, Colombia, Ecuador, Peru, Bolivia, Brazil.  
CAMPTOMERUS (Bigot), 1886:375 (*Calobata*). Type-locality: "Brazil". Distr.  
— Brazil.  
CINNAMEUS Hennig, 1935:50; 1934: pl. 2, fig. 21 (without differentiating  
statement). Type-locality: Bolivia, Mapiri, Sarampiuní. Distr. —  
Bolivia.  
CONIFER (Hendel), 1933b:217 (*Cardiacephala*). Type-locality: Paraguay,  
Areguá. Distr. — Guyana, Brazil, Paraguay.  
*haedulus* Hennig, 1935:51; 1934: pl. 3, fig. 5 (without differentiating  
statement). Type-locality: Brazil, Amazonas, Tefé.  
HARENOSUS Cresson, 1930:333 (as *Ploscelus*, lapsus). Type-locality: Colom-  
bia, Puerto Colombia. Distr. — Mexico to Panama, Guyana, Co-  
lombia.  
MODESTUS Cresson, 1930:334. Type-locality: Guatemala, Puerto Barrios.  
Distr. — Guatemala, ?Guyana, Brazil.  
*santosanus* Czerny, 1932:287. Type-locality: Brazil, São Paulo, Santos.  
NIGER (Schiner), 1868:255 (*Cardiacephala*). Type-locality: "South Ameri-  
ca". Distr. — Mexico to Panama, Guyana, Colombia, Venezuela,  
Peru, Bolivia, Brazil.

- valgus* Enderlein, 1922:228 (*Rhoecius*). Type-locality: Bolivia, Sara; Colombia.
- NITIDUS Hennig, 1935:49. Type-locality: "Brazil". Distr. — Brazil.
- PERUANUS Hennig, 1935:49. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.
- ICINUS Cresson, 1930:334. Type-locality: Panama, Canal Zone, Red Tank. Distr. — Panama.
- PLURIMACULATUS Czerny, 1932:286. Type-locality: Ecuador, Guayaquil. Distr. — Ecuador.
- PODAGRICUS (Rondani), 1848:86 (*Cardiacephala*). Type-locality: "Brazil". Distr. — Brazil, Peru.
- elegans* Hendel, 1936:64 (*Cardiacephala*). Type-locality: Brazil, Pará, Belém.
- PUNCTIPENNIS (Macquart), 1843:404 (sep. p. 247) (*Calobata*). Type-locality: "Brazil or Chile". Distr. — Brazil, ?Chile.
- wiengreeni* Czerny, 1932:288. Type-locality: Brazil, Rio de Janeiro, Nova Friburgo.
- SCHILD Cresson, 1930:334. Type-locality: Costa Rica, San Mateo, Higuato. Distr. — Costa Rica, Guyana.
- SETOSUS Hennig, 1935:49. Type-locality: Peru, Urubamba River, Umuhuan-kiali. Distr. — Peru.
- TOWNSENDI Cresson, 1930:335. Type-locality: Peru, Rio Charape. Distr. — Guyana, Surinam, Brazil (Amazonas), Peru.

#### Genus POECILOTYLUS Hennig

- Poecilomyia* Hennig, 1934:96 (preocc. Hendel, 1911). Type-species, *Calobata varia* Wiedemann (orig. des.).
- POECILOTYLUS Hennig, 1934:294 (nom. nov. for *Poecilomyia* Hendel). Type-species, *Calobata varia* Wiedemann (aut.).

#### Subgenus HEMICHAETA Hennig

- Poecilomyia*, subg. HEMICHAETA Hennig, 1934:97, 104. Type-species, *Grallomyia scutellata* Cresson (present designation).
- LANDROCKI (Czerny), 1932:297 (*Mimegralla*). Type-locality: Brazil, São Paulo, Alto da Serra (= Paranapiacaba). Distr. — Brazil.
- QUINQUEMACULATUS (Czerny), 1932:283 (*Grallomyia*). Type-locality: Costa Rica, San José. Distr. — Costa Rica.
- SCUTELLATUS (Cresson), 1930:341 (*Grallomyia*). Type-locality: Panama, Canal Zone, Tabernilla. Distr. — Panama, Venezuela.
- SIMILIS Hennig, 1934:104. Type-locality: Brazil, São Paulo, Alto da Serra (= Paranapiacaba). Distr. — Brazil.

#### Subgenus POECILOTYLUS Hennig

- RISTRIGATUS (Enderlein), 1922:220 (*Grallomyia*). Type-locality: "Brazil". Distr. — Brazil.

- BUSCKI (Cresson), 1930:342 (*Grallomyia*). Type-locality: Panama, Alhajuela. Distr. — Costa Rica, Panama. Ref. — Steyskal, 1967:81, fig. 6.
- EGREGIUS (Hennig), 1934:98, pl. 1, fig. 22 (*Poecilomyia*). Type-locality: Bolivia, Mapiri, San Antonio. Distr. — Brazil, Bolivia.
- LEUCOMELAS (Walker), 1852:392 (*Calobata*). Type-locality: "South America". Distr. — South America (more exact locality not known). Ref. — Steyskal, 1967:80.
- varipes* Walker, 1852:392 (*Calobata*). Type-locality: "South America". See also *Ptilosphen aequifemur* Hennig.
- LIVIDISOCCATUS (Enderlein), 1922:222 (*Grallomyia*). Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Peru.
- LURIDLABRIS (Enderlein), 1922:213 (*Grallomyia*). Type-locality: Brazil, Upper Amazon area. Distr. — Venezuela, Peru, Bolivia, Brazil.
- clathrata* Czerny, 1932:282 (*Grallomyia*). Type-locality: Brazil, Santa Catarina.
- MINOR (Hennig), 1934:101 (*Poecilomyia*). Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.
- OBLIQUUS (Fabricius), 1805:261 (*Calobata*). Type-locality: "South America". Distr. — Guatemala to Panama, Guianas, Venezuela, Colombia, Brazil, Peru, Bolivia.
- poecila* Schiner, 1868:254 (*Calobata*). Type-locality: "South America".
- alicia* Curran, 1932:3 (*Grallomyia*). Type-locality: Guyana, Bartica district, Kartabo.
- PARAGUAYENSIS (Enderlein), 1922:207 (*Tanypoda*). Type-locality: Paraguay, San Bernardino. Distr. — Paraguay.
- PICTUS Hennig, 1937c:521. Type-locality: Bolivia, Yungas de la Paz. Distr. — Bolivia.
- STELLATUS (Wulp), 1897:375 (*Calobata*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico to Panama, Venezuela, Guyana.
- TESTACEUS (Fabricius), 1805:261 (*Calobata*). Type-locality: "South America". Distr. — Guyana, Surinam, Brazil, Peru, Bolivia.
- TRICOLORUS (Enderlein), 1922:218 (*Grallomyia*). Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Peru.
- TRIFASCIATUS (Wiedemann), 1830:545 (*Calobata*). Type-locality: "Brazil". Distr. — Brazil.
- VARIUS (Wiedemann), 1830:545 (*Calobata*). Type-locality: "Brazil". Distr. — Costa Rica, Panama, Guyana, Brazil.
- flavipes* Macquart, 1848:227 (sep. p. 67), pl. 7, fig. 14 (*Calobata*). Type-locality: "Brazil".

#### Genus PSEUDEURYBATA Hennig

- PSEUDEURYBATA Hennig, 1934:72, pl. 4, figs. 5, 6. Type-species, *stigmatica* Hennig (mon.).

**STIGMATICA** Hennig, 1935:28; 1934: pl. 4, figs. 5, 6 (without differentiating statement). Type-locality: Panama, Canal Zone, Barro Colorado Island.

### Genus PTILOSPHEN Enderlein

**PTILOSPHEN** Enderlein, 1922:222. Type-species, *Calobata insignis* Wiedemann (orig. des.).

**Aequifemur** Hennig, 1934:320 (as var. of *P. varipes* [Walker] = *Poecilotylus leucomelas* [Walker]). Type-locality: Venezuela, Mérida. The specimens Hennig referred to *varipes* Walker, including this "variety", are probably 1 or 2 species of *Ptilosphen*, for which the name *aequifemur* is available.

**ALBIBASIS** Enderlein, 1922:224. Type-locality: Mexico, Oaxaca. Distr. — Mexico.

**COMIS** Cresson, 1930:347. Type-locality: Guyana, Kamakusa. Distr. — Guyana, Brazil.

*subgentilis* Hendel, 1936:71. Type-locality: Brazil, Pernambuco, Recife; Pará, Belém.

**CONVENIENS** (Wulp), 1897:373 (*Calobata*). Type-locality: Panama, Bugaba. Distr. — Costa Rica, Panama.

**CYANEIVENTRIS** (Macquart), 1846:343 (sep. p. 215), pl. 19, fig. 5 (*Calobata*). Type-locality: "Colombia". Distr. — Mexico to Panama, Venezuela, Colombia, Brazil.

*callichroma* Bigot, 1886:373 (*Calobata*). Type-locality: "Mexico".

**DUBIUS** Hennig, 1934:316, pl. 2, fig. 6, pl. 3, fig. 11. Type-locality: Bolivia, Mapi, Sarampuni; San Ernesto; San Carlos; San Antonio; Peru, Chanchamayo; Urubamba River, Umuhuankiali. Distr. — Bolivia, Peru.

**ENDERLEINI** Cresson, 1930:346. Type-locality: Peru, Puerto Bermúdez, Rio Pichis. Distr. — Peru, Brazil.

**FACETUS** Enderlein, 1922:225. Type-locality: Ecuador, Balzapamba. Distr. — Ecuador.

**FULVUS** (Walker), 1849:1050 (*Calobata*). Type-locality: Brazil, Pará. Distr. — Brazil. Ref. — Steyskal, 1967:77 (synonymy).

*ochraceus* Enderlein, 1922:225. Type-locality: Brazil, Pará.

**GENTILIS** Cresson, 1930:348. Type-locality: Costa Rica, San Carlos. Distr. — Costa Rica, Panama, Ecuador, Colombia (Isla Gorgona).

**INSIGNIS** (Wiedemann), 1830:533 (*Calobata*). Type-locality: "Brazil". Distr. — Trinidad, Guyana, Brazil, Peru, Bolivia.

*nigrifrons* Bigot, 1886:374 (*Calobata*). Type-locality: "Brazil".

**MIMICUS** Cresson, 1930:348. Type-locality: Peru, Pichis and Perene Valleys. Distr. — Peru.

**RUFIFRONS** Enderlein, 1922:224. Type-locality: Colombia, Cordillera, "tierra caliente". Distr. — Panama, Colombia, Ecuador.

**TETRASTIGMA** (Schiner), 1868:252 (*Calobata*). Type-locality: "South America". Distr. — Venezuela, Colombia, Brazil, ?Peru, Bolivia.



- cinctiventris* Enderlein, 1922:225. Type-locality: Colombia, Cordillera: "tierra caliente".
- cinctinentris*, misspelling.
- VIRIOLATUS Enderlein, 1922:224. Type-locality: Guatemala, Tumbador; Costa Rica. Distr. — Costa Rica, Guatemala, Venezuela.

#### Genus RAINIERIA Rondani

- RAINIERIA Rondani, 1843:40. Type-species, *Calobata calceata* Fallén (orig. des.).
- Tanipoda* Rondani, 1856:116. Type-species, *Calobata calceata* Fallén (orig. des.).
- Tanypoda*, emend.

#### Subgenus GLOBOMYIA Hennig

- Rainieria*, subg. GLOBOMYIA Hennig, 1935:65. Type-species, *obscura* Hennig (orig. des.).
- GILVIMANA Cresson, 1926:269. Type-locality: Panama, Alhajuela. Distr. — Honduras to Panama, Venezuela.
- OBSCURA Hennig, 1935:65. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.
- RUBELLA (Wulp), 1897:368, pl. 9, fig. 18 (*Calobata*). Type-locality: Mexico; Guerrero, Omilteme. Distr. — Mexico.
- WIEDEMANNI (Enderlein), 1922:208 (*Tanypoda*). Type-locality: "? , vielleicht Südamerika". Distr.?

#### Subgenus RAINIERIA Rondani

- ALTERNATA Cresson, 1926:268. Type-locality: Panama, Portobelo. Distr. — Panama, Brazil.
- BOLIVIANA Hennig, 1935:62; 1934: pl. 3, fig. 7 (without differentiating statement). Type-locality: Bolivia, Mapiri, San Antonio; San Carlos. Distr. — Bolivia.
- PARAFFINIS Hennig, 1935:51. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — Guyana.
- PERUANA (Enderlein), 1922:206 (*Tanypoda*). Type-locality: Peru, Chanchamayo. Distr. — Peru.
- PLECTILIS (Giglio-Tos), 1893:14 (Ditt. Mess.: 62) (*Calobata*). Type-locality: "Mexico". Distr. — Mexico.
- POSTICA Curran, 1932:2. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana, Peru, Bolivia.
- SOCCATA (Enderlein), 1922:206 (*Tanypoda*). Type-locality: Brazil, Upper Amazon. Distr. — Brazil, Bolivia.
- TRITAENIOLATA (Enderlein), 1922:206 (*Tanypoda*). Type-locality: Mexico, Chiapas, Soconusco; Costa Rica. Distr. — Mexico, Guatemala, Costa Rica.
- UDA Cresson, 1930:320. Type-locality: Honduras, Sangrelaya. Distr. — Honduras.

UNIFORMIS Hennig, 1935:60. Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil.

#### Subgenus RAINIERIELLA Hennig

*Rainieria*, subg. RAINIERIELLA Hennig, 1935:59, 64. Type-species, *andorum* Hennig (Aczél, 1949a:362).

ANDORUM Hennig, 1935:64. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Bolivia.

CALOSOMA (Bigot), 1886:379 (*Taeniptera*). Type-locality: "Mexico". Distr. — Mexico, Honduras, Guatemala, Guyana.

*bracteata* Wulp, 1897:371, pl. 9, fig. 23 (*Calobata*) Type-locality: Mexico, Vera Cruz.

PYGMAEA Hennig, 1935:65. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — Guyana.

#### Genus SCIPOPUS Enderlein

SCIPOPUS Enderlein, 1922:208. Type-species, *Calobata erythrocephala* Fabricius (orig. des.).

#### Subgenus PHAEOPTERINA Frey

PHAEOPTERINA Frey, 1927:73 (as genus). Type-species, *heteropus* Frey (orig. des.).

*Phaeopterinus*, emend.

HETEROPUS (Frey), 1927:74 (*Phaeopterina*). Type-locality: Bolivia, Yungas. Distr. — Brazil, Ecuador, Peru, Bolivia.

SEXGUTTATUS Enderlein, 1922:209. Type-locality: Venezuela; Colombia. Distr. — Venezuela, Colombia.

#### Subgenus SCIPOPUS Enderlein

BELZEBUL (Schiner), 1868:251 (*Calobata*). Type-locality: "South America". Distr. — Panama south to Brazil and Bolivia.

BOLIVIANUS Hennig, 1934:328. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.

BREVIFURCA Enderlein, 1922:210. Type-locality: Ecuador, Santa Inez. Distr. Ecuador, "Brazil, Pebas" (Hennig, 1937b:48). This latter locality more likely refers to Pebas, Peru.

CALOCEPHALA (Bigot), 1886:375 (*Calobata*). Type-locality: "Mexico". Distr. — Mexico, Guatemala, Costa Rica, Brazil, Peru.

*opacus* Enderlein, 1922:212. Type-locality: Guatemala, Tumbador; Peru, Cuzco, Callanga, Pinipini Valley.

CARTABOENSIS Cresson, 1926:270. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Surinam, Guyana, Venezuela, Ecuador, Brazil.

CHALYBEUS Hennig, 1934:328, pl. 3, fig. 24. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Peru, Bolivia, ?Chile.

COMPEDITUS Hennig, 1934:329. Type-locality: "Mexico". Distr. — Mexico.

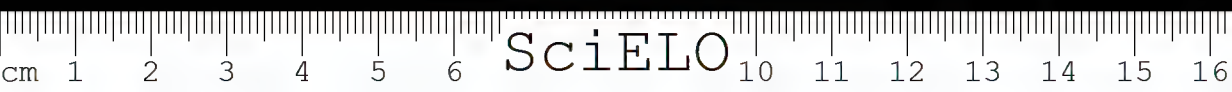
- DIVERSUS** (Schiner), 1868:250 (*Calobata*). Type-locality: "South America". Distr. — Guyana, Colombia, Venezuela, Brazil, Peru, Bolivia, Paraguay.
- ruficeps** Hendel, 1936:68 (in part). Type-locality: Brazil, Pará, Tapeinha. Ref. — Hennig, 1938:14 (synonymy; types include *S. diversus* and *erythrocephalus*).
- ERYTHROCEPHALUS** (Fabricius), 1805:260 (*Calobata*). Type-locality: "South America". Distr. — Panama south to Brazil and Bolivia.
- hottentota** Robineau-Desvoidy, 1830:737 (*Neria*). Type-locality: "Cap de Bonne-Esperance" (erroneous).
- loripes** Perty, 1833:188, pl. 37, fig. 12 (*Micropeza*). Type-locality: Brazil, Piauí.
- penicillus** Enderlein, 1922:211. Type-locality: Bolivia; Surinam; Brazil.
- ruficeps** Hendel, 1936:68 (in part), see *S. diversus*.
- FRIT** Cresson, 1926:270. Type-locality: Honduras, Sangrelaya. Distr. — Mexico to Panama, Venezuela, Colombia (Isla Gorgona).
- FURCIFER** Hennig, 1934:327, pl. 2, fig. 16, pl. 3, figs. 28, 29. Type-locality: British Honduras, Belize. Distr. — British Honduras.
- GORGONAE** Hennig, 1934:329. Type-locality: Colombia, Isla Gorgona. Distr. — Colombia (Isla Gorgona).
- LATERALIS** Hennig, 1934:326. Type-locality: Ecuador, Cordilleras. Distr. — Ecuador.
- LIMBATIVERTEX** Enderlein, 1922:211. Type-locality: Colombia, Cordillera, "tierra caliente", and Muzo; Brazil, Mato Grosso; Mexico, Chiapas, Soconusco. Distr. — Mexico to Panama, Colombia, Brazil, Bolivia.
- MANIFESTUS** (Wulp), 1897:370, pl. 9, fig. 20 (*Calobata*). Type-locality: Costa Rica, Volcano Irazu. Distr. — Costa Rica. Ref. — Steyskal, 1967:80.
- MELANEURIS** Cresson, 1926:271. Type-locality: West Indies, Dominica Island (not Santo Domingo = Dominican Republic). Ref. — Steyskal, 1967:81.
- NIGRIPENNIS** (Hendel), 1922 (April): 231 (*Tanypoda*). Type-locality: Ecuador, Balzapamba. Distr. — Colombia, Ecuador.
- albimanus** Enderlein, 1922 (June): 212. Type-locality: Colombia, Cordillera, "tierra caliente".
- RUFILABRIS** Enderlein, 1922:210. Type-locality: "Mexico, Jacuapan". Distr. — Mexico.
- STRIATITHORAX** Hennig, 1934:326. Type-locality: Brazil, Minas Gerais. Distr. — Brazil.

#### Genus TAENIAPTERA Macquart

- TAENIAPTERA** Macquart, 1835:491. Type-species, *trivittata* Macquart (mon.).
- Grallomyia* Rondani, 1850:180. Type-species, *Calobata tarsata* Wiedemann (orig. des.).
- Grallomyia*, emend.
- Grallopoda* Rondani, 1850:178, 180. Type-species, *Calobata albimana* Macquart (orig. des.) = *trivittata* Macquart.
- Mitromyia* Cresson, 1930:329. Type-species, *conifer* Cresson (mon.).



- Grallomyia*, subg. *Neograllomyia* Hendel, 1933a:65. Type-species, *longivitta* Hendel (orig. des.) = *vittipennis* (Coquillett).
- Grallomyia*, subg. *Paragrallomyia* Hendel, 1933a:63. Type-species, *Musca annulata* Fabricius (orig. des.).
- AERIPENNIS (Enderlein), 1922:214 (*Grallomyia*). Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Colombia, Peru, Bolivia.
- ALBIBASIS (Enderlein), 1922:216 (*Grallomyia*). Type-locality: Guatemala, Tumbador. Distr. — Guatemala, Guyana, Brazil, Peru, Bolivia.
- ALBITARSIS (Enderlein), 1922:217 (*Grallomyia*). Type-locality: Brazil, Upper Amazon area. Distr. — Panama, Guyana, Brazil, Peru, Bolivia.
- livida* Cresson, 1926:274. Type-locality: Panama, Trinidad Rio.
- ANGULATA (Loew), 1866:47 (Cent. 7, no. 87) (*Calobata*). Type-locality: "New Granada" = Colombia. Distr. — Honduras to Panama, Colombia (Isla Gorgona), Trinidad, south to Argentina (Tucumán).
- enderleini* Czerny, 1930:120 (*Grallomyia*), "new name for *Grallomyia annulata* Enderlein, not Fabricius".
- ANNULATA (Fabricius), 1787:348 (*Musca*). Type-locality: Cayenne = French Guiana. Distr. — French Guiana and Surinam south to Uruguay and Argentina (Buenos Aires). Ref. — Fischer, 1932:15 (biology).
- meigenii* Perty, 1833:188, pl. 37, fig. 10 (*Calobata*). Type-locality: Brazil, Bahia.
- BALZAPAMBANA (Enderlein), 1922:217 (*Grallomyia*). Type-locality: Ecuador, Balzapamba. Distr. — Ecuador.
- balzapampana*, misspelling.
- CAERULESCENS (Macquart), 1846:344 (sep. p. 216), pl. 19, fig. 7 (*Calobata*). Type-locality: "Venezuela". Distr. — Venezuela. Unrecognized.
- CONTINENTALIS Hennig, 1934:82. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — Guyana.
- DILUTIMACULA (Enderlein), 1922:221 (*Grallomyia*). Type-locality: "Bolivia". Distr. — Bolivia.
- DIVERSICOLOR (Macquart), 1855:146 (sep. p. 126) (*Calobata*). Type-locality: "au bord du fleuve des Amazones". Distr. — Brazil.
- GORGONAE Hennig, 1934:90. Type-locality: Colombia, Isla Gorgona. Distr. — Colombia (Isla Gorgona).
- GRATA (Wulp), 1897:371, pl. 9, fig. 24 (*Calobata*). Type-locality: Mexico, Guerrero, Dos Arroyos. Distr. — Mexico (Guerrero, Sinaloa, Isthmus of Tehuantepec), Costa Rica, El Salvador, Nicaragua (in U.S. Nat. Mus.). Ref. — Steyskal, 1967:77, figs. 1, 2.
- conifer* Cresson, 1930:329 (*Mitromyia*). Type-locality: Costa Rica, San Mateo, Higuito.
- GRATULA Steyskal, 1967:77, figs. 3, 4. Type-locality: Mexico, northern Yucatán. Distr. — Mexico.
- ICHNEUMONEA Brauer, 1885:388, fig. 4 (pl.) (*Calobata*). Type-locality: Mexico, Veracruz, Orizaba. Distr. — Mexico, Guatemala, Costa Rica.
- caloptera* Bigot, 1886:381 (*Grallomyia*). Type-locality: "Mexico".





- INORNATA Hennig, 1934:79. Type-locality: Brazil, Amazonas, Coari, R. Solimões. Distr. — Brazil.
- LASCIVA (Fabricius), 1798:564 (*Musca*). Type-locality: Cayenne = French Guiana. Distr. — Southernmost U.S.A., Mexico, West Indies, south to Paraguay and northern Argentina.
- ruficeps* Guérin-Mèneville, 1844:553, pl. 103, fig. 7 (*Calobata*). Type-locality: West Indies, "Cuba".
- aloea* Walker, 1849:1053 (*Calobata*). Type-locality: West Indies, "Jamaica".
- alva*, misspelling.
- lunulata* Wulp, 1897:372, pl. 9, fig. 26 (*Calobata*). Type-locality: Mexico, Mazatlán, Presidio; Medellín near Vera Cruz; Tabasco, Frontera and Teapa; North Yucatán.
- obliterata* Cresson, 1930:351 (as variety). Type-locality: "Ecuador".
- LATIFASCIA (Wulp), 1897:372, pl. 9, fig. 25 (*Calobata*). Type-locality: Costa Rica, Caché; Panama, Boquete. Distr. — Costa Rica, Panama. Ref. — Steyskal, 1967:79.
- latisfasciata*, error.
- LAUTA (Cresson), 1930:345 (*Grallomyia*). Type-locality: Panama, Canal Zone, Paraiso. Distr. — Panama. Ref. — Steyskal, 1967:79, 81.
- LINEATA (Enderlein), 1922:217 (*Grallomyia*). Type-locality: "Colombia". Distr. — Colombia.
- LONGIFURCA (Hendel), 1933:64 (*Grallomyia*, subg. *Paragrallomyia*). Type-locality: "Brazil". Distr. — Brazil (Rio de Janeiro, Petrópolis).
- MEDIOFUSCA Hennig, 1934:82, pl. 1, fig. 11. Type-locality: Peru, Urubamba River, Umuhuankiali. Distr. — Brazil, Peru, Bolivia.
- MUNDA (Wulp), 1897: 374, pl. 9, fig. 29 (*Calobata*). Type-locality: Mexico, Guerrero, Dos Arroyos. Distr. — Mexico, Guatemala, San Salvador, Honduras. Ref. — Steyskal, 1967:78.
- NIGRICEPS Hennig, 1934:89, pl. 1, fig. 12. Type-locality: "Brazil". Distr. — Brazil.
- NIGRITARSIS (Macquart), 1848:227 (sep. p. 67), pl. 7, fig. 13 (*Calobata*). Type-locality: "Brazil". Distr. — Brazil, Paraguay.
- imitans* Enderlein, 1922:221 (*Grallomyia*). Type-locality: Paraguay, San Bernardino.
- bonitoensis* Cresson, 1930:339 (*Grallomyia*). Type-locality: Brazil, Pernambuco, Bonito.
- PARENS Cresson, 1926:273. Type-locality: Honduras, Sangreleya. Distr. — Honduras, Guyana, Brazil.
- PLANITIBIA (Enderlein), 1922:216 (*Grallomyia*). Type-locality: "Central America"; Guatemala, Tumbador; Mexico, Chiapas, Soconusco; Nicaragua, near Bluefields. Distr. — Mexico to Nicaragua.
- PLATYCHEMA (Loew), 1866:47 (Cent. 7, no. 86) (*Calobata*). Type-locality: New Granada (= Colombia). Distr. — Mexico to Panama, West Indies (exact locality?), Colombia, Ecuador.
- POSTANNULUS (Enderlein), 1922:215 (*Grallomyia*). Type-locality: Brazil, Espírito Santo. Distr. — Brazil.
- RUFIFACIES (Macquart), 1851:272 (sep. p. 299) (*Calobata*). Type-locality: "South America". Distr. — Guyana.

- albivola* Rondani, 1863:41 (*Grallomyia*). Type-locality: "Amer. Aequat."  
*velutina* Curran, 1932:4 (*Grallomyia*). Type-locality: Guyana, Bartica district, Kartabo.
- SEIUNCTA* (Czerny), 1931:24 (*Grallomyia*). Type-locality: Peru, Cuzco, Callanga; Borneo (certainly erroneous). Distr. — Peru, Bolivia.
- urubambana* Hennig, 1934:92, pl. 3, fig. 25. Type-locality: Bolivia, Mapiri, San Carlos.
- SIMILLIMA* (Hendel), 1922:232 (*Tanypona*). Type-locality: "Mexico". Distr. — Mexico, Costa Rica, Brazil, ?Chile.
- STRIGATA* (Enderlein), 1922:214 (*Grallomyia*). Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Peru.
- TARSATA* (Wiedemann), 1830:541 (*Calobata*). Type-locality: Brazil; Surinam. Distr. — Mexico to Panama, Trinidad south to Brazil and Bolivia.
- cayennensis* Robineau-Desvoidy, 1830:737 (*Neria*). Type-locality: Surinam; French Guiana.
- robusta* Walker, 1849:1051 (*Calobata*). Type-locality: not cited.
- THIEMEI* (Enderlein), 1922:217 (*Grallomyia*). Type-locality: Colombia, Cordilleras, "tierra caliente". Distr. — Colombia.
- TIBIALIS* (Macquart), 1843:404 (sep. p. 247) (*Calobata*). Type-locality: "Guyane". Distr. — West Indies (Grenada), Honduras, Trinidad, south to Paraguay and Bolivia. Ref. — Steyskal, 1967:82 (synonymy).
- latitibia* Enderlein, 1922:22 (*Grallomyia*). Type-locality: Brazil, Bahia; Eastern Bolivia.
- dilator* Cresson, 1926:274. Type-locality: West Indies, Grenada.
- VITTIPENNIS* (Coquillett), 1902:125 (*Calobata*). Type-locality: Mexico, ?Tabasco, Frontera. Distr. — Mexico to Panama, Surinam, Venezuela, Brazil.
- longivitta* Hendel, 1922:234 (*Tanypona*). Type-locality: "Costa Rica".
- VOLENS* Cresson, 1926:273. Type-locality: Panama, Portobelo. Distr. — Panama.
- VULGATA* Hennig, 1934:79. Type-locality: Brazil, Pará. Distr. — Guyana, Brazil.
- VULPES* Cresson, 1926:273. Type-locality: Panama, Trinidad Río. Distr. — Panama, Colombia.
- WULPI* Steyskal, 1967:78, fig. 5. Type-locality: Mexico, Guerrero, Venta de Zopilote. Distr. — Mexico.

#### Genus TENTHES Cresson

- TENTHES* Cresson, 1930:354. Type-species, *citatus* Cresson (mon.).
- CITATUS* Cresson, 1930:355. Type-locality: Peru, Puerto Bermúdez, Río Pichis. Distr. — Peru.

#### Genus ZELATRACTODES Enderlein

- ZELATRACTODES* Enderlein, 1922:169. Type-species, *filipes* Enderlein (orig. des.).
- Aristobata* Frey, 1927:69. Type-species, *melini* Frey (orig. des.).
- AFURCATUS* (Hennig), 1935:33 (*Aristobata*). Type-locality: Venezuela, Mérida. Distr. — Venezuela.

- BRAUERI (Hennig), 1935:31; 1934: pl. 2, fig. 5 (without differentiating statement) (*Aristobata*). Type-locality: "Venezuela". Distr. — Venezuela.
- CYCLOPS (Hennig), 1935:30; 1934: pl. 2, fig. 4 (without differentiating statement) (*Aristobata*). Type-locality: Bolivia, Mapiri, Sarampiuni and San Carlos. Distr. — Bolivia.
- var. HEMICHRYSUS (Hennig), 1935:31 (*Aristobata*). Type-locality: Bolivia, Mapiri, San Carlos; Yungas de Coroico.
- FILIPES Enderlein, 1922:169. Type-locality: Peru, Pozuzo. Distr. — Peru.
- GARLEPPI (Enderlein), 1922:201 (*Tanypoda*). Type-locality: Bolivia; Colombia. Distr. — Colombia, Ecuador, Bolivia.
- HOFFMANNI (Enderlein), 1922:202 (*Tanypoda*). Type-locality: Peru, Cushi Libertad. Distr. — Peru.
- MELINI (Frey), 1927:69 (*Aristobata*). Type-locality: Peru, East Andes, Roque. Distr. — Peru.
- OBLITUS (Hennig), 1935:32 (*Aristobata*). Type-locality: "Venezuela". Distr. — Venezuela.
- RUFIVENTRIS (Enderlein), 1922:204 (*Tanypoda*). Type-locality: "Colombia". Distr. — Colombia.
- SCURRUS (Hennig), 1935:32; 1934: pl. 2, fig. 7 (without differentiating statement) (*Aristobata*). Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia.
- VERSICOLORUS (Enderlein), 1922:203 (*Tanypoda*). Type-locality: "Colombia". Distr. — Colombia.

#### UNPLACED TAENIAPTERINAE

- ARGENTATA Walker, 1852:396 (*Calobata*). Type-locality: "Brazil".
- BICOLOR Walker, 1852:395 (*Calobata*). Type-locality: "Brazil". Walker noted that this and the preceding species "do not fully agree with the characters of *Calobata*, and may form a new genus." I have found no further reference to them.
- RUFIPES Fabricius, 1805:261 (*Calobata*). Type-locality: "Amer. merid.". ?*Parasphen*.
- OSCULATI Rondani, 1851:366 (*Grallomya*). Type-locality: "principalmente nelle vicinanze del Rio Napo". According to the collector's account of his South American trip (Osculati, 1854), it is most likely that the insects were collected in Peru.
- BRASILIANA Rondani, 1863:41 (*Tanipoda*). Type-locality: "Brasilia".

#### LITERATURE CITED

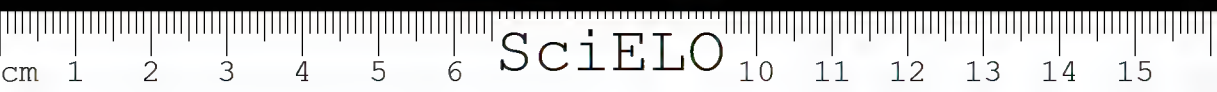
(including Family Neriidae)

ACZÉL, M.

- 1949a. Notes on "Tylidae". II. *Acta Zool. Lilloana* 8:219-280, pls. 1-2.
- 1949b. Catálogo de la familia de las "Tylidae" (Calobatidae + Micropezidae + Neriidae, Diptera) en la región neotropical. *Acta Zool. Lilloana* 8:309-389.



1951. Morfología externa y división sistemática de las "Tanypezidi-formes" con sinópsis de las especies argentinas de "Tylidae" ("Micropezidae") y "Neriidae" (Dipt.). *Acta Zool. Lilloana* 11:483-589, pls. 1-4.
1961. A revision of American Neriidae (Diptera, Acalyptratae). *Studia Ent.* 4:257-346.
- ALBUQUERQUE, L. PAES DE
1966. Observações sobre "*Protylos armipennis*" (Bezzi, 1924) (Diptera, Micropezidae). *Rev. Brasil. Biol.* 26:39-45, figs. 1-18.
- BEZZI, M.
1924. Deux nouveaux Micropézides du Brésil présentant de remarquables caractères sexuels secondaires. *Encycl. Ent.* (B2, Diptera) 1:73-77.
- BIGOT, J. M. F.
1886. Diptères nouveaux ou peu connus. 29e. partie, etc. *Ann. Soc. Ent. France* (6) 6:287-392.
- BRAUER, F.
1885. Systematisch-zoologische Studien. *Sitzungsb. Kais. Akad. Wiss., Math.-Naturwiss. Cl.* 91:237-413, 1 pl.
- COLE, F. R.
1923. XXV. Expedition of the California Academy of Sciences to the Gulf of California in 1921. Diptera from the islands and adjacent shores of the Gulf of California. II. General Report. *Proc. Calif. Acad. Sci.* (4) 12:457-481.
- COQUILLETT, D. W.
1902. New Diptera from North America. *Proc. U. S. Nat. Mus.* 25:83-126.
1904. New North American Diptera. *Proc. Ent. Soc. Wash.* 6:166-192.
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.
- CRESSON, E. T., JR.
1908. Dipterological notes. I. Micropezidae. *Trans. Amer. Ent. Soc.* 34:1-12, pls. 1-2.
1912. Descriptions of several new neotropical acalyptrate Diptera. *Ent. News* 23:389-396, pl. 19.
1926. Descriptions of new genera and species of Diptera (Ephydriidae and Micropezidae). *Trans. Amer. Ent. Soc.* 52:249-274.
1930. Notes on and descriptions of some neotropical Neriidae and Micropezidae (Diptera). *Trans. Amer. Ent. Soc.* 56:307-363.
- CURRAN, C. H.
1932. New species of Calobatidae from British Guiana. *Amer. Mus. Novitates* 559:1-4.
- CZERNY, L.
1930. Die *Musca annulata* F. (Dipt. Micropez.). *Mitteil. Deutsch. Ent. Ges.* 1(8):117-120.





1931. Einige neue Tyliden des Deutschen entomologischen Museums in Berlin-Dahlem. *Konowia* 10:21-26.
1932. Tyliden und Neriiden des zoologischen Museums in Hamburg (Dipt.). *Stettin. Ent. Ztg.* 93:267-302.
- ENDERLEIN, G.
1922. Klassifikation der Micropeziden. *Arch. Naturg.* 88(A):140-229.
1923. Neue Beiträge zur Kenntnis der Micropeziden (Dipt.) *Deutsche Ent. Zts.* 1923:540-543.
- FABRICIUS, J. C.
1775. *Systema entomologiae*, etc. 832 pp. Flensburgi et Lipsiae (= Flensburg and Leipzig).
1787. *Mantissa insectorum sistens species nuper detectas* 2:382 pp. Hafniae (= Copenhagen).
1798. *Supplementum entomologiae systematicae*. 572 pp. Hafniae (= Copenhagen).
1805. *Systema antliatorum secundum ordines, genera, species*. 373 + 30 pp. Brunsvigae (= Brunswick).
- FISCHER, C. R.
1932. Contribuição para o conhecimento da metamorphose e posição systematica da familia Tylidae (Micropezidae, Dipt.). *Rev. de Ent.* 2:15-24.
- FREY, R.
1927. Zur Systematik der Diptera Haplostomata. III. Fam. Micropezidae. *Notulae Ent.* 7:65-76.
- GIGLIO-TOS, E.
1893. Diagnosi di nuovi generi e di nuovi specie di Ditteri. IX. *Boll. Mus. Zool. Anat. Comp. R. Univ. Torino* 8(158): 1-14 (more extended descriptions in 1895, Ditteri del Messico, Pt. IV, *Mem. R. Accad. Sci. Torino* [2] 45).
- GRAY, G.
1832. In K. Griffith & E. Pidgeon: *The Class Insecta arranged by the late Baron Cuvier*, etc., 2 (15 of the whole work): 793 pp., 89 pls.
- GUÉRIN-MÉNEVILLE, F. E.
- (1844). Douzième Ordre. Les Diptères, pp. 531-559 (livr. 50), in his *Iconographie du règne animal de G. Cuvier* 3 (Texte explicatif, Insectes): 576 pp. (= livr. 45-50). Paris.
- HENDEL, F.
1913. H. Sauter's Formosa-Ausbeute. Acalyptrate Musciden (Dipt.). *Ent. Mitteil.* 2:33-43.
1922. Einige neue Micropeziden. *Deutsch. Ent. Zts.* 1922:231-235.
1932. Die Ausbeute der Deutschen Chaco-Expedition 1925/26. — Diptera. XXV-XXVI, etc. *Konowia* 11:98-145.
- 1933a. Ueber einige Typen Wiedemann's und Schiner's von acalyptraten Musciden aus Südamerika, nebst einige verwandten Arten (Dipt.). *Rev. de Ent.* 3:58-83.
- 1933b. Von Dr. Zürcher in den Jahren 1913-1918 in Paraguay gesammelte acalyptrate Dipteren. *Rev. de Ent.* 3:213-224.

1936. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiete, ausgeführt von Dr. H. Zerny. X. Teil. Diptera. Muscidae acalyptratae (excl. Chloropidae). *Ann. Naturhist. Mus. Wien* 47:61-106.

HENNIG, W.

1934. Revision der Tyliden (Dipt., Acalypt.). I. Teil: Die Taeniapterinae Amerikas. *Stettin. Ent. Ztg.* 95:65-198, 294-330.  
 1935. Do. *Idem* 96:27-67.  
 1936. Do. II. Teil: Die aussereuropäischen Taeniapterinae, die Trepidariinae und Tylinae. Allgemeines über die Tyliden (cont.). *Konowia* 15:129-239.  
 1937a. Uebersicht über die Arten der Neriiden und über die Zoographie dieser Acalyptraten-Gruppe. *Stettin. Ent. Ztg.* 98:240-280.  
 1937b. Nachträge zur "Revision der Tyliden". *Stettin. Ent. Ztg.* 98:46-50.  
 1937c. Tylidae (Micropezidae, Diptera), aus der Sammlung des British Museum of Natural History. Nachträge zur "Revision der Tyliden. — II." *Ann. Mag. Nat. Hist.* (10) 19:521-523.  
 1938. Neue Beiträge zur Systematik der Richardiiden und Tyliden (Diptera, Acalyptrata). *Arb. Morphol. Taxonom. Ent. Berlin-Dahlem* 5:8-15.

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

1955. Opinion 369. Suppression under the plenary powers of the generic names *Tylos* Meigen, 1800, etc. In F. Hemming, ed.: *Opinions and Declarations rend. Internatl. Comm. Zool. Nomencl.* 11:265-300.

JAMES, M. T.

1954. The Diptera collected on the Cockerell and Hubbell expeditions to Honduras. Part III: Tylidae, with a new species from Mexico. *Pan-Pacific Ent.* 30:247-250.

JOHNSON, C. W.

1894. List of the Diptera of Jamaica with descriptions of new species. *Proc. Acad. Nat. Sci. Philad.* 1894:271-281.  
 1919. A revised list of the Diptera of Jamaica. *Bull. Amer. Mus. Nat. Hist.* 41:421-449.

LAPORTE, F. L. DE

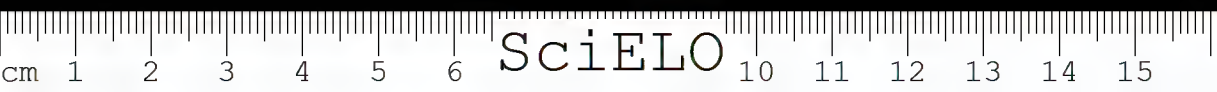
1832. Notice sur le *Macrotoma*, nouveau genre de Diptères de la famille des Muscides. *Ann. Sci. Nat.* 25:457-460.

LOEW, H.

1866. Diptera Americae septentrionalis indigena. Centuria septima. *Berlin. Ent. Zts.* 10:1-54 (Also separately published in 1872, vol. 2, 300 pp.).

MACQUART, J.

1835. *Histoire naturelle des insectes. Diptères.* 2:703 pp., pls. 13-24 (In N. E. Roret, ed.: *Collection des Suites à Buffon*).  
 1843. Diptères exotiques nouveaux ou peu connus. (3e. Subdivision). *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1842:162-460, pls. 1-36 (also published separately with different pagination, vol. 2, part 3).



1846. Do. (1er) Supplément. *Ibidem* 1844:133-361, pls. 1-20 (also published separately with different pagination).
1848. Do., Suite du 2e supplément (i. e., 3e suppl.). *Ibidem* 1847 (2): 161-237, pls. 1-7 (also published separately with different pagination).
1851. Do., Suite du 4e supplément. *Mém. Soc. Nat. Sci. Agric. Arts Lille* 1850:134-294, pls. 15-28 (also published separately with different pagination).
1855. Do., 5e supplément. *Mém. Soc. Imp. Sci. Agric. Arts Lille* 1854:25-156, pls. 1-7 (also published separately with different pagination).

MEIGEN, J. W.

1800. *Nouvelle classification des mouches à deux ailes (Diptera L.) d'après un plan tout nouveau*, 40 pp. Paris.
1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Mag. f. Insektenkunde* 2:259-281.
1830. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten* 6:iv + 401 pp., pls. 55-66. Hamm.

OLSEN, L. E., & R. E. RYCKMAN

1963. Studies on *Odontoloxozus longicornis* (Diptera: Neriidae). Part I. Life history and descriptions of immature stages. *Ann. Ent. Soc. Amer.* 56:454-469.

OSCOLATI, G.

1854. *Esplorazione delle regioni equatoriali*, etc. 2nd. ed., 344 pls., pls. 1-15, 1 folding map. Milano.

PERTY, M.

1833. *Delectus animalium articulatum*, etc. (3rd part): 125-224, pls. 25-40. Monachii (also in separate entitled "De Insectorum in America meridionali, etc.>").

ROBINEAU-DESVOIDY, J. B.

1830. Essai sur les Myodaires. (Paris) Inst. de France, (Cl. des) Sci. Math. Phys., Acad. Roy. Sci., *Mém. présentées par divers Savans* (ser. 2) 2:1-813.

RÜDER, V. VON

1885. Dipteren von der Insel Portorico. *Stettin. Ent. Ztg.* 46:337-349.

RONDANI, C.

1843. Quattro specie di insetti proposti come tipi di generi nuovi. Memoria sesta per servir alla ditteologia italiana. (Accad. Sci. Ist. Bologna) *Nuovi Ann. Sci. Nat.* 10:32-46, 1 pl.
1848. Esame di varie specie d'insetti ditteologi brasiliani. Truqui, *Studi Ent.* 1:63-112, pl. 3bis.
1850. Osservazioni sopra alquante specie di Esapodi Ditteologi del Museo Torinese. *Nuovi Ann. Sci. Nat.* (Bologna) (3) 2:165-197, pl. 4.
1851. Dipteriorum species aliquae in America Aequatoriali collectae a Cajetano Osculati, observati et distinctae novis breviter descriptis. *Nuovi Ann. Sci. Nat.* (Bologna) (3) 2:357-373 (for Nov., Dec., 1850).
1856. *Dipterologiae Italicae Prodrum* 1:288 pp. Parmae (= Parma).



1863. *Diptera exotica revisa et annotata*, 99 pp., 1 pl. Modena (Also published in 1864 under the title "Dipterorum species et genera aliqua exotica", *Arch. Zool. Anat. Fis.* [Modena] 3[1]:1-99, pl. 5).
- RYCKMAN, R. E., & L. E. OLSEN
1963. Studies on *Odontotoxozus longicornis* (Diptera: Neriidae). Part II. Distribution and ecology. *Ann. Ent. Soc. Amer.* 56:470-472.
- SCHINER, I. R.
1868. Diptera, in Wüllersdorf-Urbair, B. von: *Reise der österreichischen Fregatte Novara*. Zool., 2(1B):1-388 pp., pls. 1-4, Wien.
- STEYSKAL, G. C.
1964. Larvae of Micropezidae (Diptera), including two species that bore in ginger roots. *Ann. Ent. Soc. Amer.* 57:292-296.
1965. Synonymy of the genera *Antillonerius* and *Imrenerius* (Diptera: Neriidae). *Proc. Ent. Soc. Wash.* 67:60.
1967. Notes on some older types of neotropical Micropezidae with descriptions of new species (Diptera, Acalyptratae). *Papéis Avulsos de Zool.*, S. Paulo 20:75-83.
- WALKER, F.
1849. *List of the specimens of Dipterous Insects in the collection of the British Museum* 4:689-1172. London.
1852. In W. W. Saunders, ed.: *Insecta Saundersiana* 1(4):253-414. London. (The whole work, published in parts at various dates, contains 8 pls., of which the only one pertinent to the present subject is plate 7).
- WIEDEMANN, C. R. W.
1830. *Aussereuropäische zweiflügelige Insekten* 2:xii + 684 pp., 5 pls. Hamm.
- WILLISTON, S. W.
1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London* 1896:253-446, pls. 8-14.
- WULP, F. M. VAN DER
1883. Amerikaansche Diptera (continuation). *Tijds. Ent.* 26:1-60.
1897. Group Calobatinae, in F. D. Godman & O. Salvin, eds.: *Biologia Centrali-Americana*, Zool., Ins., Diptera 2:363-376, pl. 9.

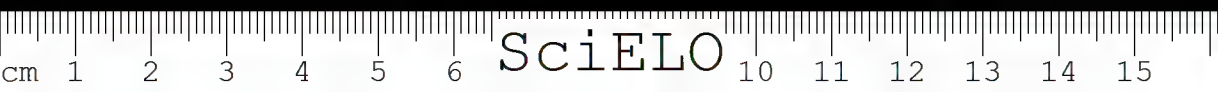
## INDEX

|  |       |
|--|-------|
| abbreviata Cresson, 1926, Micropeza .....                    | 48.2  |
| acutivitta (Hendel), 1936 (Systellapha), Grallipeza .....    | 48.6  |
| aequifemur Hennig, 1934, Ptilosphen .....                    | 48.13 |
| aeripennis Enderlein, 1922, Mesoconius .....                 | 48.9  |
| aeripennis (Enderlein), 1922 (Grallomyia), Taeniaptera ..... | 48.17 |
| affinis Hennig, 1934, Grallipeza .....                       | 48.6  |
| afurcatus (Hennig), 1935 (Aristobata), Zelatractodes .....   | 48.19 |
| albibasis Enderlein, 1922, Ptilosphen .....                  | 48.13 |
| albibasis (Enderlein), 1922 (Grallomyia), Taeniaptera .....  | 48.17 |
| albimanus Enderlein, 1922, Mesoconius .....                  | 48.9  |

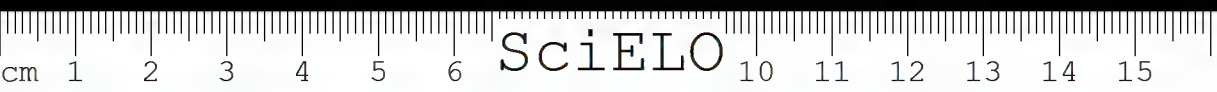
48.25



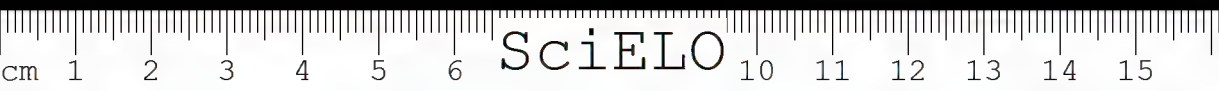
|   |       |
|---|-------|
| <i>albimanus</i> Enderlein, 1922, Scipopus .....                      | 48.16 |
| <i>albiseta</i> (Czerny), 1932 (Metopobrachia), Micropeza .....       | 48.2  |
| <i>albitarsis</i> (Enderlein), 1922 (Grallomyia), Taeniptera .....    | 48.17 |
| <i>albivola</i> (Rondani), 1863 (Grallomyia), Taeniptera .....        | 48.19 |
| <i>alicia</i> (Curran), 1932 (Grallomyia), Poecilotylus .....         | 48.12 |
| <i>aloea</i> (Walker), 1849 (Calobata), Taeniptera .....              | 48.18 |
| <i>alternata</i> Cresson, 1926, Rainieria .....                       | 48.14 |
| <i>alva</i> , misspelling for aloa, q.v. ....                         | 48.18 |
| <i>amazonica</i> (Enderlein), 1922 (Systellapha), Grallipeza .....    | 48.6  |
| <i>amazonicus</i> Enderlein, 1922, Parasphen .....                    | 48.10 |
| <i>andorum</i> Hennig, 1935, Rainieria .....                          | 48.15 |
| <i>angulata</i> (Loew), 1866 (Calobata), Taeniptera .....             | 48.17 |
| <i>annulata</i> (Fabricius), 1787 (Musca), Taeniptera .....           | 48.17 |
| <i>annulata</i> Schiner, 1868, Micropeza .....                        | 48.2  |
| <i>appendiculata</i> Schiner, 1868, Micropeza .....                   | 48.2  |
| <i>arcuata</i> Hennig, 1934, Grallipeza .....                         | 48.6  |
| <i>argentata</i> Walker, 1852, Calobata, unplaced .....               | 48.26 |
| <i>argentiniensis</i> (Aczél), 1949 (Tylos), Micropeza .....          | 48.2  |
| <i>Aristobata</i> Frey, 1927 .....                                    | 48.19 |
| <i>armipennis</i> (Bezzi), 1924 (Cliopeza), Micropeza .....           | 48.2  |
| <i>arthriticus</i> (Wiedemann), 1830 (Calobata), Plocoscelus .....    | 48.10 |
| <i>atriseta</i> (Czerny), 1932 (Metopobrachia), Micropeza .....       | 48.2  |
| <i>auriornata</i> Hennig, 1934, Grallipeza .....                      | 48.6  |
| <i>auristrigatus</i> Enderlein, 1922, Mesoconius .....                | 48.9  |
| <i>auristrigatus</i> Hennig, 1934, Calosphen .....                    | 48.5  |
| <i>balzapambana</i> (Enderlein), 1922 (Grallomyia), Taeniptera ....   | 48.17 |
| <i>balzapampana</i> , misspelling for balzapambana, q.v. ....         | 48.17 |
| <i>baracoa</i> (Cresson), 1926 (Systellapha), Grallipeza .....        | 48.7  |
| <i>belzebul</i> (Schiner), 1868 (Calobata), Scipopus .....            | 48.15 |
| <i>biannulata</i> Cresson, 1926, Micropeza .....                      | 48.2  |
| <i>bicolor</i> Walker, 1852, Calobata, unplaced .....                 | 48.20 |
| <i>biguttata</i> (Enderlein), 1922 (Tanypoda), Clioata .....          | 48.5  |
| <i>bilineata</i> Wulp, 1897, Micropeza .....                          | 48.2  |
| <i>bistrigatus</i> (Enderlein), 1922 (Grallomyia), Poecilotylus ..... | 48.11 |
| <i>bogotana</i> (Enderlein), 1922 (Cliopeza), Micropeza .....         | 48.3  |
| <i>boliviana</i> Hennig, 1935, Rainieria .....                        | 48.14 |
| <i>bolivianus</i> Hennig, 1934, Scipopus .....                        | 48.15 |
| <i>bonitoensis</i> (Cresson), 1930 (Grallomyia), Taeniptera .....     | 48.18 |
| <i>bracteata</i> (Wulp), 1897 (Calobata), Rainieria .....             | 48.15 |
| <i>brasiliiana</i> Rondani, 1863, Tanipoda, unplaced .....            | 48.20 |
| <i>brasiliensis</i> Schiner, 1868, Micropeza .....                    | 48.3  |
| <i>braueri</i> (Hennig), 1935 (Aristobata), Zelatractodes .....       | 48.20 |
| <i>brevifurca</i> Enderlein, 1922, Scioppus .....                     | 48.15 |
| <i>brevipennis</i> (Walker), 1852 (Calobata), Plocoscelus .....       | 48.10 |
| <i>breviradialis</i> (Hennig), 1936 (Tylos), Micropeza .....          | 48.3  |
| <i>buscki</i> (Cresson), 1930 (Grallomyia), Poecilotylus .....        | 48.12 |
| <i>caerulescens</i> (Macquart), 1846 (Calobata), Taeniptera .....     | 48.17 |
| <i>callangana</i> (Enderlein), 1922 (Systellapha), Grallipeza .....   | 48.7  |
| <i>callichroma</i> (Bigot), 1886 (Calobata), Ptilosphen .....         | 48.13 |
| <i>calocephala</i> (Bigot), 1886 (Calobata), Scipopus .....           | 48.15 |
| <i>caloptera</i> (Bigot), 1886 (Grallomyia), Taeniptera .....         | 48.17 |
| <i>calosoma</i> (Bigot), 1886 (Taeniptera), Rainieria .....           | 48.15 |
| <i>Calosphen</i> Hennig, 1934 .....                                   | 48.5  |



|  |       |
|--|-------|
| <i>camptomerus</i> (Bigot), 1886 (Calobata), <i>Plocoscelus</i> .....                | 48.10 |
| <i>cantata</i> (Cresson), 1926 (Systellapha), <i>Grallipeza</i> .....                | 48.7  |
| <i>Cardiacephala</i> Macquart, 1843 .....  | 48.5  |
| <i>cartaboensis</i> Cresson, 1926, <i>Scipopus</i> .....                             | 48.15 |
| <i>cayennensis</i> (Robineau-Desvoidy), 1830 (Neria), <i>Taeniaptera</i> ....        | 48.19 |
| <i>Chaetotylus</i> Hendel, 1932 .....  | 48.5  |
| <i>chalybeus</i> Hennig, 1934, <i>Scipopus</i> .....                                 | 48.15 |
| <i>cinctiventris</i> , Misspelling for <i>cinctiventris</i> , q.v. ....              | 48.14 |
| <i>cinctiventris</i> Enderlein, 1922, <i>Ptilosphen</i> .....                        | 48.14 |
| <i>cinnameus</i> Hennig, 1935, <i>Plocoscelus</i> .....                              | 48.10 |
| <i>citatus</i> Cresson, 1930, <i>Tenthes</i> .....                                   | 48.19 |
| <i>clathrata</i> (Czerny), 1932 ( <i>Grallomyia</i> ), <i>Poecilotylus</i> .....     | 48.12 |
| <i>Cliobata</i> Enderlein, 1923 .....  | 48.5  |
| <i>Cliopeza</i> Enderlein, 1922 .....  | 48.2  |
| <i>columbiana</i> (Enderlein), 1922 ( <i>Metopobrachia</i> ), <i>Micropeza</i> ..... | 48.3  |
| <i>columbiana</i> (Enderlein), 1922 (Systellapha), <i>Grallipeza</i> .....           | 48.8  |
| <i>comis</i> Cresson, 1930, <i>Ptilosphen</i> .....                                  | 48.13 |
| <i>compeditus</i> Hennig, 1934, <i>Scipopus</i> .....                                | 48.15 |
| <i>conifer</i> (Cresson), 1930 ( <i>Mitromyia</i> ), <i>Taeniaptera</i> .....        | 48.17 |
| <i>conifer</i> (Hendel), 1933 ( <i>Cardiacephala</i> ), <i>Plocoscelus</i> .....     | 48.10 |
| <i>continentalis</i> Hennig, 1934, <i>Taeniaptera</i> .....                          | 48.17 |
| <i>conveniensi</i> (Wulp), 1897 (Calobata), <i>Ptilosphen</i> .....                  | 48.13 |
| <i>Cressoninus</i> , error or emendation for <i>Cressonius</i> , q.v. ....           | 48.1  |
| <i>Cressonius</i> Aczél, 1949 .....  | 48.1  |
| <i>cristulata</i> (Cresson), 1926 (Systellapha), <i>Grallipeza</i> .....             | 48.7  |
| <i>Cryogonus</i> Cresson, 1926 .....   | 48.1  |
| <i>Chrysogonus</i> , error for <i>Cryogonus</i> , q.v. ....                          | 48.1  |
| <i>cyaneiventris</i> (Macquart), 1846 (Calobata), <i>Ptilosphen</i> .....            | 48.13 |
| <i>cyclops</i> (Hennig), 1935 ( <i>Aristobata</i> ), <i>Zelatractodes</i> .....      | 48.20 |
|  |       |
| <i>descolei</i> Aczél, 1949, <i>Cryogonus</i> .....                                  | 48.1  |
| <i>diadema</i> (Wiedemann), 1830 (Calobata), <i>Cliobata</i> .....                   | 48.5  |
| <i>diademoides</i> Hendel, 1933, <i>Cliobata</i> .....                               | 48.5  |
| <i>dilator</i> Cresson, 1926, <i>Taeniaptera</i> .....                               | 48.19 |
| <i>dilutimacula</i> (Enderlein), 1922 ( <i>Grallovia</i> ), <i>Taeniaptera</i> ..... | 48.17 |
| <i>distenta</i> Cresson, 1926, <i>Micropeza</i> .....                                | 48.3  |
| <i>distincta</i> Schiner, 1868, <i>Micropeza</i> .....                               | 48.3  |
| <i>diversicolor</i> (Macquart), 1855 (Calobata), <i>Taeniaptera</i> .....            | 48.17 |
| <i>diversus</i> (Schiner), 1868 (Calobata), <i>Scipopus</i> .....                    | 48.16 |
| <i>divisa</i> (Wiedemann), 1830 (Calobata), <i>Micropeza</i> .....                   | 48.3  |
| <i>dorsalis</i> (Hennig), 1936 ( <i>Tylos</i> ), <i>Micropeza</i> .....              | 48.3  |
| <i>dubius</i> Hennig, 1934, <i>Ptilosphen</i> .....                                  | 48.13 |
|  |       |
| <i>ecuadoriensis</i> (Enderlein), 1922 (Systellapha), <i>Grallipeza</i> .....        | 48.7  |
| <i>egregius</i> (Hennig), 1934 ( <i>Poecilomyia</i> ), <i>Poecilotylus</i> .....     | 48.12 |
| <i>elegans</i> (Hendel), 1936 ( <i>Cardiacephala</i> ), <i>Plocoscelus</i> .....     | 48.11 |
| <i>elegans</i> Hennig, 1934, <i>Grallipeza</i> .....                                 | 48.7  |
| <i>enderleini</i> Cresson, 1930, <i>Ptilosphen</i> .....                             | 48.13 |
| <i>enderleini</i> (Czerny), 1930 ( <i>Grallomyia</i> ), <i>Taeniaptera</i> .....     | 48.17 |
| <i>enderleini</i> Frey, 1927, <i>Mesoconius</i> .....                                | 48.9  |
| <i>eques</i> (Schiner), 1868 (Calobata), <i>Cliobata</i> .....                       | 48.6  |
| <i>erythrocephalus</i> (Fabricius), 1805 (Calobata), <i>Scipopus</i> .....           | 48.16 |
|  |       |
| <i>fabricii</i> Steyskal, new, <i>Hoplocheiloma</i> .....                            | 48.9  |
| <i>facetus</i> Enderlein, 1922, <i>Ptilosphen</i> .....                              | 48.13 |

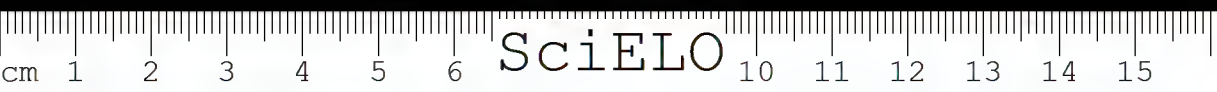


|   |       |
|---|-------|
| <i>fasciata</i> (Fabricius), 1775 (Musca), Hoplocheiloma .....      | 48.9  |
| <i>fenestrata</i> (Czerny), 1932 (Rainieria), Cliobata .....        | 48.6  |
| <i>ferrugatum</i> Hennig, 1935, Hoplocheiloma .....                 | 48.9  |
| <i>flebrigi</i> (Enderlein), 1922 (Neriocephalus), Micropeza .....  | 48.3  |
| <i>filipes</i> Enderlein, 1922, Zelatractodes .....                 | 48.20 |
| <i>flava</i> (Hennig), 1936 (Tylos), Micropeza .....                | 48.3  |
| <i>flavicauda</i> , error for flavicaudata, q.v. ....               | 48.7  |
| <i>flavicaudata</i> (Cresson), 1926 (Systellapha), Grallipeza ..... | 48.7  |
| <i>flaviceps</i> Enderlein, 1922, Mesoconius .....                  | 48.9  |
| <i>flavipes</i> (Macquart), 1848 (Calobata), Poccilotylus .....     | 48.12 |
| <i>flaviventris</i> Cole, 1923, Micropeza .....                     | 48.4  |
| <i>footei</i> (Cresson), 1926 (Systellapha), Grallipeza .....       | 48.7  |
| <i>formicarius</i> (Rondani), 1864 (Micropeza), Cryogonus .....     | 48.2  |
| <i>frit</i> Cresson, 1926, Scipopus .....                           | 48.16 |
| <i>frontalis</i> Cresson, 1930, Parasphen .....                     | 48.10 |
| <i>fulvus</i> Enderlein, 1922, Mesoconius .....                     | 48.9  |
| <i>fulvus</i> (Walker), 1849 (Calobata), Ptilosphen .....           | 48.13 |
| <i>furcifer</i> Hennig, 1934, Scipopus .....                        | 48.16 |
| <i>fuscimanus</i> Czerny, 1931, Plocoscelus .....                   | 48.10 |
|   |       |
| <i>garleppi</i> Enderlein, 1922, Mesoconius .....                   | 48.9  |
| <i>garleppi</i> (Enderlein), 1922 (Tanypoda), Zelatractodes .....   | 48.20 |
| <i>gentilis</i> Cresson, 1930, Ptilosphen .....                     | 48.13 |
| <i>gibbivertex</i> (Enderlein), 1922 (Micropeza), Cryogonus .....   | 48.2  |
| <i>gilvimana</i> Cresson, 1926, Rainieria .....                     | 48.14 |
| <i>Globomyia</i> Hennig, 1935 .....                                 | 48.14 |
| <i>gorgonae</i> Hennig, 1934, Scipopus .....                        | 48.16 |
| <i>gorgonae</i> Hennig, 1934, Taenioptera .....                     | 48.17 |
| <i>gracilis</i> Hennig, 1934, Grallipeza .....                      | 48.7  |
| <i>Grallipeza</i> Rondani, 1850 .....                               | 48.6  |
| <i>Grallomyia</i> Rondani, 1850 .....                               | 48.16 |
| <i>Grallomyia</i> , emendation for Grallomyia, q.v. ....            | 48.16 |
| <i>Grallopoda</i> Rondani, 1850 .....                               | 48.16 |
| <i>grata</i> (Wulp), 1897 (Calobata), Taenioptera .....             | 48.17 |
| <i>gratula</i> Steyskal, 1967, Taenioptera .....                    | 48.17 |
| <i>guttata</i> (Enderlein), 1922 (Tanypoda), Cliobata .....         | 48.6  |
| <i>guttata</i> (Walker), 1852 (Calobata), Cardiacephala .....       | 48.5  |
| <i>guttipennis</i> (Wiedemann), 1830 (Calobata), Cliobata .....     | 48.6  |
| <i>guttulipennis</i> (Enderlein), 1923 (Scipopus), Cliobata .....   | 48.6  |
| <i>Gymnosphen</i> Frey, 1927 .....                                  | 48.8  |
|   |       |
| <i>haedulus</i> Hennig, 1935, Plocoscelus .....                     | 48.10 |
| <i>harenosus</i> Cresson, 1930, Plocoscelus .....                   | 48.10 |
| <i>Hemichaeta</i> Hennig, 1934 .....                                | 48.11 |
| <i>hemichrysus</i> (Hennig), 1935 (Aristobata), Zelatractodes ..... | 48.20 |
| <i>hemithorax</i> Frey, 1927, Mesoconius .....                      | 48.9  |
| <i>Henniginus</i> Aczél, 1949 .....                                 | 48.1  |
| <i>heteropus</i> (Frey), 1927 (Phaeopterina), Scipopus .....        | 48.15 |
| <i>hoffmannsi</i> (Enderlein), 1922 (Tanypoda), Zelatractodes ..... | 48.20 |
| <i>Hoplocheiloma</i> Cresson, 1926 .....                            | 48.8  |
| <i>hottentota</i> (Robineau-Desvoidy), 1830 (Neria), Scipopus ..... | 48.16 |
| <i>hyaloptera</i> (Hendel), 1936 (Rainieria), Grallipeza .....      | 48.7  |





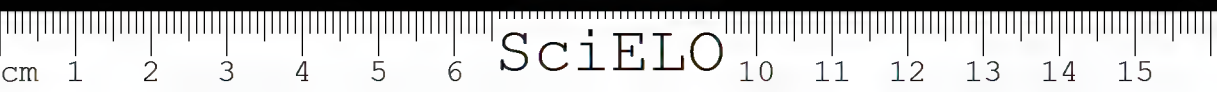
|  |       |
|--|-------|
| <i>ichneumonea</i> (Brauer), 1885 (Calobata), Taeniaptera .....          | 48.17 |
| <i>imbecilla</i> (Enderlein), 1922 (Systellapha), Grallipeza .....       | 48.7  |
| <i>imitans</i> (Enderlein), 1922 (Grallomyia), Taeniaptera .....         | 48.18 |
| <i>incisa</i> Wiedemann, 1830, Micropeza .....                           | 48.3  |
| <i>infestus</i> Enderlein, 1922, Mesoconius .....                        | 48.9  |
| <i>inornata</i> Hennig, 1934, Taeniaptera .....                          | 48.18 |
| <i>insignis</i> (Wiedemann), 1830 (Calobata), Ptilosphen .....           | 48.13 |
| <i>landrocki</i> (Czerny), 1932 (Mimegralla), Poecilotylus .....         | 48.11 |
| <i>lasciva</i> (Fabricius), 1798 (Musca), Taeniaptera .....              | 48.18 |
| <i>lateralis</i> Hennig, 1934, Scipopus .....                            | 48.16 |
| <i>latifascia</i> (Wulp), 1897 (Calobata), Taeniaptera .....             | 48.18 |
| <i>latifasciata</i> , error for latifascia, q.v. ....                    | 48.18 |
| <i>latitibia</i> (Enderlein), 1922 (Grallomyia), Taeniaptera .....       | 48.19 |
| <i>lauta</i> (Cresson), 1930 (Grallomyia), Taeniaptera .....             | 48.18 |
| <i>leucomelas</i> (Walker), 1852 (Calobata), Poecilotylus .....          | 48.12 |
| <i>lilloi</i> (Aczél), 1949 (Tylos), Micropeza .....                     | 48.3  |
| <i>limbara</i> (Enderlein), 1922 (Metopobrachia), Micropeza .....        | 48.3  |
| <i>limbata</i> Röder, 1885, Micropeza .....                              | 48.3  |
| <i>limbativertex</i> Enderlein, 1922, Scipopus .....                     | 48.16 |
| <i>lineata</i> (Enderlein), 1922 (Grallomyia), Taeniaptera .....         | 48.18 |
| <i>livida</i> Cresson, 1926, Taeniaptera .....                           | 48.17 |
| <i>lividisoccatus</i> (Enderlein), 1922 (Grallomyia), Poecilotylus ..... | 48.12 |
| <i>loewi</i> (Enderlein), 1922 (Systellapha), Grallipeza .....           | 48.8  |
| <i>longiceps</i> Hendel, 1932, Micropeza .....                           | 48.4  |
| <i>longifurca</i> (Hendel), 1933 (Grallomyia), Taeniaptera .....         | 48.18 |
| <i>longipes</i> (Fabricius), 1787 (Musca), Cardiacephala .....           | 48.5  |
| <i>longivitta</i> (Hendel), 1922 (Tanypoda), Taeniaptera .....           | 48.19 |
| <i>loripes</i> (Perty), 1833 (Micropeza), Scipopus .....                 | 48.16 |
| <i>lunaris</i> (Wiedemann), 1830 (Calobata), Cliobata .....              | 48.6  |
| <i>lunulata</i> (Wulp), 1897 (Calobata), Taeniaptera .....               | 48.18 |
| <i>luridilabris</i> (Enderlein), 1922 (Grallomyia), Poecilotylus .....   | 48.12 |
| <i>luteiventris</i> (Czerny), 1932 (Metopobrachia), Micropeza .....      | 48.3  |
| <i>macropyga</i> (Frey), 1927 (Gymnosphen), Hoplocheiloma .....          | 48.9  |
| <i>maculiceps</i> (Czerny), 1932 (Metopobrachia), Micropeza .....        | 48.3  |
| <i>maculidorsum</i> (Enderlein), 1922 (Metopobrachia), Micropeza .....   | 48.3  |
| <i>maculifrons</i> (Czerny), 1931 (Systellapha), Grallipeza .....        | 48.7  |
| <i>maculosum</i> (Loew), 1866 (Calobata), Hoplocheiloma .....            | 48.9  |
| <i>magna</i> Hennig, 1934, Grallipeza .....                              | 48.7  |
| <i>manifestus</i> (Wulp), 1897 (Calobata), Scipopus .....                | 48.16 |
| <i>marginata</i> (Hennig), 1936 (Tylos), Micropeza .....                 | 48.3  |
| <i>mediofusca</i> Hennig, 1934, Taeniaptera .....                        | 48.18 |
| <i>meigenii</i> (Perty), 1833 (Calobata), Taeniaptera .....              | 48.17 |
| <i>melaneuris</i> Cresson, 1926, Scipopus .....                          | 48.16 |
| <i>melanopus</i> (Bigot), 1886 (Taeniaptera), Cliobata .....             | 48.6  |
| <i>melini</i> (Frey), 1927 (Aristobata), Zelatractodes .....             | 48.20 |
| <i>mellea</i> (Williston), 1896 (Calobata), Grallipeza .....             | 48.7  |
| <i>meridionalis</i> Hennig, 1934, Calosphen .....                        | 48.5  |
| <i>Mesoconius</i> Enderlein, 1922 .....                                  | 48.9  |
| <i>Metasphen</i> Frey, 1927 .....  | 48.10 |
| <i>Metopobrachia</i> Enderlein, 1922 .....                               | 48.2  |
| <i>Micropeza</i> Meigen, 1803 .....                                      | 48.2  |
| <i>Micropezinae</i> .....  | 48.1  |
| <i>mimicus</i> Cresson, 1930, Ptilosphen .....                           | 48.13 |
| <i>minor</i> (Hennig), 1934 (Poecilomyia), Poecilotylus .....            | 48.12 |



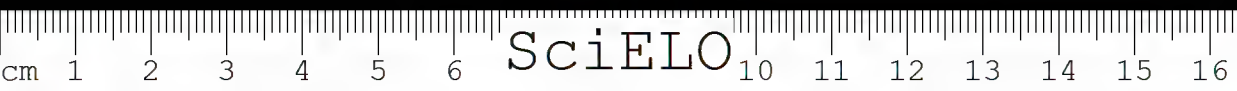


|   |       |
|---|-------|
| <i>Mitromyia</i> Cresson, 1930 .....  | 48.16 |
| <i>modestus</i> Cresson, 1930, <i>Plocoscelus</i> .....                               | 48.10 |
| <i>muelleri</i> (Enderlein), 1922 (Tanypoda), <i>Cliobata</i> .....                   | 48.6  |
| <i>munda</i> (Wulp), 1897 (Calobata), <i>Taeniptera</i> .....                         | 48.18 |
| <i>myrmex</i> (Schiner), 1868 (Cardiacephala), <i>Plocoscelus</i> .....               | 48.10 |
| <i>nebulosa</i> (Loew), 1866 (Calobata), <i>Grallipeza</i> .....                      | 48.7  |
| <i>Neograllomyia</i> Hendel, 1933 .....   | 48.17 |
| <i>Neotylus</i> Hendel, 1932 .....  | 48.2  |
| <i>Neotypus</i> , error for <i>Neotylus</i> , q.v. ....                               | 48.2  |
| <i>Neriocephalus</i> Enderlein, 1922 .....  | 48.2  |
| <i>niger</i> (Schiner), 1868 (Cardiacephala), <i>Plocoscelus</i> .....                | 48.10 |
| <i>nigriceps</i> Hennig, 1934, <i>Taeniptera</i> .....                                | 48.18 |
| <i>nigricornis</i> Wulp, 1897, <i>Micropeza</i> .....                                 | 48.3  |
| <i>nigrifilum</i> (Walker), 1852 (Calobata), <i>Cliobata</i> .....                    | 48.5  |
| <i>nigrifrons</i> (Bigot), 1886 (Calobata), <i>Ptilosphen</i> .....                   | 48.13 |
| <i>nigrina</i> Wulp, 1883, <i>Micropeza</i> .....                                     | 48.3  |
| <i>nigrinotata</i> Hennig, 1934, <i>Grallipeza</i> .....                              | 48.7  |
| <i>nigripennis</i> (Hendel), 1922 (Tanypoda), <i>Scipopus</i> .....                   | 48.16 |
| <i>nigritarsis</i> (Macquart), 1848 (Calobata), <i>Taeniptera</i> .....               | 48.18 |
| <i>nitidus</i> Hennig, 1935, <i>Plocoscelus</i> .....                                 | 48.11 |
| <i>notitipenne</i> Cresson, 1926, <i>Hoplocheiloma</i> .....                          | 48.9  |
| <i>obliterata</i> Cresson, 1930, <i>Taeniptera</i> .....                              | 48.18 |
| <i>oblitus</i> (Hennig), 1935 (Aristobata), <i>Zelatractodes</i> .....                | 48.20 |
| <i>obliquus</i> (Fabricius), 1805 (Calobata), <i>Pocilotylus</i> .....                | 48.12 |
| <i>obscura</i> Bigot, 1886, <i>Micropeza</i> .....                                    | 48.3  |
| <i>obscura</i> Hennig, 1934, <i>Grallipeza</i> .....                                  | 48.7  |
| <i>obscura</i> Hennig, 1935, <i>Rainieria</i> .....                                   | 48.14 |
| <i>obstitus</i> Hendel, 1932, <i>Chaetotylus</i> .....                                | 48.5  |
| <i>obtusiconus</i> Enderlein, 1922, <i>Mesoconius</i> .....                           | 48.9  |
| <i>occipitalis</i> Wulp, 1897, <i>Micropeza</i> .....                                 | 48.4  |
| <i>ochraceus</i> Enderlein, 1922, <i>Ptilosphen</i> .....                             | 48.13 |
| <i>opacus</i> Enderlein, 1922, <i>Scipopus</i> .....                                  | 48.15 |
| <i>orcina</i> (Wiedemann), 1830 (Calobata), <i>Cliobata</i> .....                     | 48.6  |
| <i>ornatipes</i> Bigot ( <i>Taeniptera</i> ) — see <i>Tanypezidae</i>                 |       |
| <i>ornatithorax</i> (Enderlein), 1922 ( <i>Systellapha</i> ), <i>Grallipeza</i> ..... | 48.7  |
| <i>osculati</i> Rondani, 1851, <i>Grallomyia</i> , unplaced .....                     | 48.20 |
| <i>pallens</i> Wiedemann, 1830, <i>Micropeza</i> .....                                | 48.4  |
| <i>pallidefasciata</i> (Maquart), 1855 (Calobata), <i>Grallipeza</i> .....            | 48.7  |
| <i>pallidipennis</i> Bigot ( <i>Taeniptera</i> ) — see <i>Tanypezidae</i>             |       |
| <i>panamaensis</i> (Cresson), 1926 ( <i>Systellapha</i> ), <i>Grallipeza</i> .....    | 48.8  |
| <i>paraffinis</i> Hennig, 1935, <i>Rainieria</i> .....                                | 48.14 |
| <i>Paragrallomyia</i> Hendel, 1933 .....  | 48.17 |
| <i>paraguayensis</i> (Enderlein), 1922 (Tanypoda), <i>Pocilotylus</i> .....           | 48.12 |
| <i>Parasphen</i> Enderlein, 1922 .....  | 48.10 |
| <i>parens</i> Cresson, 1926, <i>Taeniptera</i> .....                                  | 48.18 |
| <i>pectoralis</i> (Wiedemann), 1830 (Calobata), <i>Micropeza</i> .....                | 48.4  |
| <i>pellucida</i> (Czerny), 1932 ( <i>Rainieria</i> ), <i>Cliobata</i> .....           | 48.6  |
| <i>penicillus</i> Enderlein, 1922, <i>Scipopus</i> .....                              | 48.16 |
| <i>perforatum</i> (Enderlein), 1922 (Tanypoda), <i>Hoplocheiloma</i> .....            | 48.9  |
| <i>peruana</i> (Enderlein), 1922 (Tanypoda), <i>Rainieria</i> .....                   | 48.14 |
| <i>peruana</i> (Hennig), 1936 ( <i>Tylos</i> ), <i>Micropeza</i> .....                | 48.4  |

|   |       |
|---|-------|
| peruanus Hennig, 1935, <i>Plocoscelus</i> .....                                       | 48.11 |
| Phaeopterina Frey, 1927 .....   | 48.15 |
| <i>Phaeopterinus</i> , emendation of <i>Phaepterina</i> , q.v. ....                   | 48.15 |
| picinus Cresson, 1930, <i>Plocoscelus</i> .....                                       | 48.11 |
| pictus Hennig, 1937, <i>Poecilotylus</i> .....  | 48.12 |
| placida (Loew), 1866 ( <i>Calobata</i> ), <i>Grallipeza</i> .....                     | 48.8  |
| placidoides (Cresson), 1926 ( <i>Systellapha</i> ), <i>Grallipeza</i> .....           | 48.8  |
| planitibia (Enderlein), 1922 ( <i>Grallomyia</i> ), <i>Taeniptera</i> .....           | 48.18 |
| planula Cresson, 1926, <i>Micropeza</i> .....   | 48.4  |
| platycnema (Loew), 1866 ( <i>Calobata</i> ), <i>Taeniptera</i> .....                  | 48.18 |
| plectilis (Giglio-Tos), 1893 ( <i>Calobata</i> ), <i>Rainieria</i> .....              | 48.14 |
| pleuralis (Cresson), 1930 ( <i>Rainieria</i> ), <i>Calosphen</i> .....                | 48.5  |
| pleuritica (Johnson), 1894 ( <i>Calobata</i> ), <i>Grallipeza</i> .....               | 48.8  |
| <i>Plocoscelus</i> Enderlein, 1922 .....  | 48.10 |
| plurimaculatus Czerny, 1932, <i>Plocoscelus</i> .....                                 | 48.11 |
| podagricus (Rondani), 1843 ( <i>Cardiacephala</i> ), <i>Plocoscelus</i> .....         | 48.11 |
| <i>poecila</i> (Schiner), 1868 ( <i>Calobata</i> ), <i>Poecilotylus</i> .....         | 48.12 |
| <i>Poecilomyia</i> Hennig, 1934 .....   | 48.11 |
| <i>Poecilotylus</i> Hennig, 1934 .....  | 48.11 |
| postannulus (Enderlein), 1922 ( <i>Grallomyia</i> ), <i>Taeniptera</i> .....          | 48.18 |
| postica Curran, 1932, <i>Rainieria</i> .....  | 48.14 |
| princeps (Schiner), 1868 ( <i>Calobata</i> ), <i>Calosphen</i> .....                  | 48.5  |
| producta Walker, 1849, <i>Micropeza</i> .....   | 48.4  |
| pronigra Hennig, 1934, <i>Grallipeza</i> .....  | 48.8  |
| <i>Protylos</i> Aczél, 1949 .....   | 48.2  |
| <i>Pseudeurybata</i> Hennig, 1934 .....   | 48.12 |
| pseudosimple Hennig, 1934, <i>Grallipeza</i> .....                                    | 48.8  |
| <i>Ptilosphen</i> Enderlein, 1922 .....   | 48.13 |
| pulchrifrons (Cresson), 1926 ( <i>Systellapha</i> ), <i>Grallipeza</i> .....          | 48.8  |
| punctipennis (Macquart), 1843 ( <i>Calobata</i> ), <i>Plocoscelus</i> .....           | 48.11 |
| pygmaea Hennig, 1935, <i>Rainieria</i> .....  | 48.15 |
| quinquemaculatus (Czerny), 1932 ( <i>Grallomyia</i> ), <i>Poecilotylus</i> ....       | 48.11 |
| <i>Rainieria</i> Rondani, 1843 .....  | 48.14 |
| <i>Rainieriella</i> Hennig, 1935 .....  | 48.15 |
| raptimanus (Bezzi), 1924 ( <i>Scipopus</i> ), <i>Cliobata</i> .....                   | 48.6  |
| recta Cresson, 1926, <i>Micropeza</i> .....   | 48.4  |
| reedi Cresson, 1926, <i>Cryogonus</i> .....   | 48.2  |
| reuniens (Hennig), 1936 ( <i>Tylos</i> ), <i>Micropeza</i> .....                      | 48.4  |
| <i>Rhoecius</i> Enderlein, 1922 .....   | 48.10 |
| robusta (Walker), 1849 ( <i>Calobata</i> ), <i>Taeniptera</i> .....                   | 48.19 |
| rubella (Wulp), 1897 ( <i>Calobata</i> ), <i>Rainieria</i> .....                      | 48.14 |
| ruficauda Curran, 1932, <i>Parasphen</i> .....  | 48.10 |
| <i>ruficeps</i> (Guérin-Ménéville), 1844 ( <i>Calobata</i> ), <i>Taeniptera</i> ..... | 48.18 |
| <i>ruficeps</i> Hendel, 1936, <i>Scipopus</i> .....                                   | 48.16 |
| <i>ruficeps</i> Wulp, 1897, <i>Micropeza</i> .....                                    | 48.4  |
| rufifacies (Macquart), 1851 ( <i>Calobata</i> ), <i>Taeniptera</i> .....              | 48.18 |
| rufifrons Enderlein, 1922, <i>Ptilosphen</i> .....                                    | 48.13 |
| rufilabris Enderlein, 1922, <i>Scipopus</i> .....                                     | 48.16 |
| rufipes Fabricius, 1805, <i>Calobata</i> , unplaced .....                             | 48.20 |
| rufithorax Enderlein, 1922, <i>Mesoconius</i> .....                                   | 48.9  |
| rufiventris (Enderlein), 1922 ( <i>Tanypoda</i> ), <i>Zelatractodes</i> .....         | 48.20 |
| russula (Wulp), 1897 ( <i>Calobata</i> ), <i>Grallipeza</i> .....                     | 48.8  |

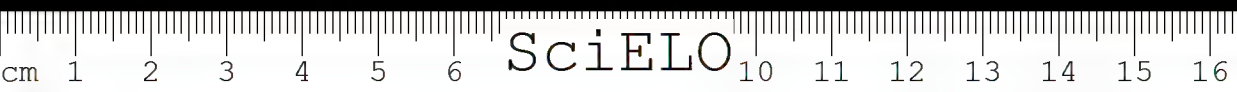


|  |       |
|--|-------|
| <i>sagittifer</i> Cresson, 1926, <i>Micropeza</i> .....                              | 48.4  |
| <i>santosanus</i> Czerny, 1932, <i>Plocoscelus</i> .....                             | 48.10 |
| <i>schildi</i> Cresson, 1930, <i>Plocoscelus</i> .....                               | 48.11 |
| <i>Scipopus</i> Enderlein, 1922 .....  | 48.15 |
| <i>scurra</i> (Enderlein), 1922 ( <i>Systellapha</i> ), <i>Grallipeza</i> .....      | 48.8  |
| <i>scurrus</i> (Hennig), 1935 ( <i>Aristobata</i> ), <i>Zelatractodes</i> .....      | 48.20 |
| <i>scutellatus</i> (Cresson), 1930 ( <i>Grallomyia</i> ), <i>Poecilotylus</i> .....  | 48.11 |
| <i>secunda</i> Hennig, 1935, <i>Cardiacephala</i> .....                              | 48.5  |
| <i>seiuncta</i> (Czerny), 1931 ( <i>Grallomyia</i> ), <i>Taeniptera</i> .....        | 48.19 |
| <i>setosus</i> Hennig, 1935, <i>Plocoscelus</i> .....                                | 48.11 |
| <i>sexguttatus</i> Enderlein, 1922, <i>Scipopus</i> .....                            | 48.15 |
| <i>similis</i> (Aczél), 1949 (Tylos), <i>Micropeza</i> .....                         | 48.4  |
| <i>similis</i> Hennig, 1934, <i>Poecilotylus</i> .....                               | 48.11 |
| <i>simillima</i> (Hendel), 1922 ( <i>Tanypoda</i> ), <i>Taeniptera</i> .....         | 48.19 |
| <i>simplex</i> (Wiedemann), 1830 ( <i>Calobata</i> ), <i>Grallipeza</i> .....        | 48.8  |
| <i>soccata</i> (Enderlein), 1922 ( <i>Tanypoda</i> ), <i>Rainieria</i> .....         | 48.14 |
| <i>spinuliger</i> (Cresson), 1926 ( <i>Systellapha</i> ), <i>Grallipeza</i> .....    | 48.8  |
| <i>stellatus</i> (Wulp), 1897 ( <i>Calobata</i> ), <i>Poecilotylus</i> .....         | 48.12 |
| <i>stigmatica</i> Hennig, 1935, <i>Pseudeurybata</i> .....                           | 48.13 |
| <i>stigmatica</i> Wulp, 1897, <i>Micropeza</i> .....                                 | 48.4  |
| <i>striatithorax</i> Hennig, 1934, <i>Scipopus</i> .....                             | 48.16 |
| <i>strigata</i> (Enderlein), 1922 ( <i>Grallomyia</i> ), <i>Taeniptera</i> .....     | 48.19 |
| <i>strophium</i> (Enderlein), 1922 ( <i>Tanypoda</i> ), <i>Calosphen</i> .....       | 48.5  |
| <i>suavis</i> (Enderlein), 1922 ( <i>Systellapha</i> ), <i>Grallipeza</i> .....      | 48.8  |
| <i>subgentilis</i> Hendel, 1936, <i>Ptilosphen</i> .....                             | 48.13 |
| <i>subrecta</i> Cresson, 1926, <i>Micropeza</i> .....                                | 48.4  |
| <i>sufflava</i> (James), 1954 (Tylos), <i>Micropeza</i> .....                        | 48.4  |
| <i>Systellapha</i> Enderlein, 1922 .....   | 48.6  |
| <i>tabernilla</i> Cresson, 1926, <i>Micropeza</i> .....                              | 48.4  |
| <i>Taeniptera</i> Macquart, 1835 .....   | 48.16 |
| <i>Taenipterinae</i> .....   | 48.5  |
| <i>Tanipoda</i> Rondani, 1856 .....  | 48.14 |
| <i>Tanypoda</i> , emendation for <i>Tanipoda</i> , q.v. ....                         | 48.14 |
| <i>tarsalis</i> (Aczél), 1949 (Tylos), <i>Micropeza</i> .....                        | 48.4  |
| <i>tarsata</i> (Wiedemann), 1830 ( <i>Calobata</i> ), <i>Taeniptera</i> .....        | 48.19 |
| <i>Tenthes</i> Cresson, 1930 .....   | 48.19 |
| <i>testaceus</i> (Fabricius), 1805 ( <i>Calobata</i> ), <i>Poecilotylus</i> .....    | 48.12 |
| <i>tetrastigma</i> (Schiner), 1868 ( <i>Calobata</i> ), <i>Ptilosphen</i> .....      | 48.13 |
| <i>thiemei</i> (Enderlein), 1922 ( <i>Grallomyia</i> ), <i>Taeniptera</i> .....      | 48.19 |
| <i>tibialis</i> (Macquart), 1843 ( <i>Calobata</i> ), <i>Taeniptera</i> .....        | 48.19 |
| <i>townsendi</i> Cresson, 1930, <i>Plocoscelus</i> .....                             | 48.11 |
| <i>triannulata</i> (Czerny), 1932 ( <i>Metopobrachia</i> ), <i>Micropeza</i> .....   | 48.4  |
| <i>tricolorus</i> (Enderlein), 1922 ( <i>Grallomyia</i> ), <i>Poecilotylus</i> ..... | 48.12 |
| <i>trifasciatus</i> (Wiedemann), 1830 ( <i>Calobata</i> ), <i>Poecilotylus</i> ..... | 48.12 |
| <i>triluminata</i> Cresson, 1930, <i>Cardiacephala</i> .....                         | 48.5  |
| <i>trimaculata</i> (Czerny), 1932 ( <i>Rainieria</i> ), <i>Calobata</i> .....        | 48.6  |
| <i>tritaeniolata</i> (Enderlein), 1922 ( <i>Tanypoda</i> ), <i>Rainieria</i> .....   | 48.14 |
| <i>Tylos</i> Meigen, 1800 .....  | 48.2  |
| <i>Tylus</i> , emendation for <i>Tylos</i> , q.v. ....                               | 48.2  |
| <i>uda</i> Cresson, 1930, <i>Rainieria</i> .....                                     | 48.14 |
| <i>ujhelyianus</i> Enderlein, 1922, <i>Mesoconius</i> .....                          | 48.9  |
| <i>unifasciata</i> (Fabricius), 1805 ( <i>Calobata</i> ), <i>Grallipeza</i> .....    | 48.8  |



|   |       |
|---|-------|
| <i>uniformis</i> Hennig, 1935, <i>Rainieria</i> .....                                 | 48.15 |
| <i>unimaculata</i> (Macquart), 1846 ( <i>Calobata</i> ), <i>Grallipeza</i> .....      | 48.8  |
| <i>urubambana</i> Hennig, 1934, <i>Taeniptera</i> .....                               | 48.19 |
| <i>valgus</i> (Enderlein), 1922 ( <i>Rhœcius</i> ), <i>Plocoscelus</i> .....          | 48.11 |
| <i>varipes</i> (Walker), 1852 ( <i>Calobata</i> ), <i>Poecilotylus</i> .....          | 48.12 |
| <i>varius</i> (Wiedemann), 1830 ( <i>Calobata</i> ), <i>Poecilotylus</i> .....        | 48.12 |
| <i>velutina</i> (Curran), 1932 ( <i>Grallomyia</i> ), <i>Taeniptera</i> .....         | 48.19 |
| <i>ventralis</i> Cresson, 1930, <i>Micropeza</i> .....                                | 48.4  |
| <i>versicolorus</i> (Enderlein), 1922 ( <i>Tanypoda</i> ), <i>Zelatractodes</i> ..... | 48.20 |
| <i>verticalis</i> Cresson, 1930, <i>Micropeza</i> .....                               | 48.5  |
| <i>vicina</i> Hennig, 1934, <i>Grallipeza</i> .....                                   | 48.8  |
| <i>vigilans</i> Frey, 1927, <i>Metasphen</i> .....                                    | 48.10 |
| <i>viriolatus</i> Enderlein, 1922, <i>Ptilosphen</i> .....                            | 48.14 |
| <i>vittipennis</i> (Coquillett), 1902 ( <i>Calobata</i> ), <i>Taeniptera</i> .....    | 48.19 |
| <i>volens</i> Cresson, 1926, <i>Taeniptera</i> .....                                  | 48.19 |
| <i>vulgata</i> Hennig, 1934, <i>Taeniptera</i> .....                                  | 48.19 |
| <i>vulpes</i> Cresson, 1926, <i>Taeniptera</i> .....                                  | 48.19 |
| <i>wiedemanni</i> (Enderlein), 1922 ( <i>Tanypoda</i> ), <i>Rainieria</i> .....       | 48.14 |
| <i>wiengreeni</i> Czerny, 1932, <i>Plocoscelus</i> .....                              | 48.11 |
| <i>wulpi</i> Steyskal, 1967, <i>Taeniptera</i> .....                                  | 48.19 |
| <i>Zelatractodes</i> Enderlein, 1922 .....  | 48.19 |





SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

49

## FAMILY NERIIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D.C.*

The Neriidae are medium to large flies of characteristic appearance, with rather long and slender legs usually furnished with short, stout spines. They may be distinguished from most other Acalyptratae by the arista being situated apically on the third antennal segment. Very little is known of their biology, but they are probably feeders on decaying vegetable matter (Olsen & Ryckman, 1963; Ryckman & Olsen, 1963). The family is virtually restricted in distribution to the tropics of both hemispheres. Only one subfamily is found in America; the other one, the Telostylinae, occurs in Asia and Africa. The latest revision of the American species is by Aczél (1961), and the last general revision is by Hennig (1937a).

## Subfamily NERIINAE

## Genus ANTILLONERIUS Hennig

ANTILLONERIUS Hennig, 1937a:256. Type-species, *Nerius solitarius* Johnson (orig. des.) = *cinereus* (Röder).

*Imrenerius* Aczél, 1961:284. Type-species, *Nerius cinereus* Röder (orig. des.).

Undescribed species have been seen from Saint Kitts and Dominica (West Indies).

BISTRIATUS (Williston), 1896:373, pl. 12, figs. 126, 126a (*Nerius*). Type-locality: West Indies, Saint Vincent. Distr. — Saint Vincent. N. COMB.

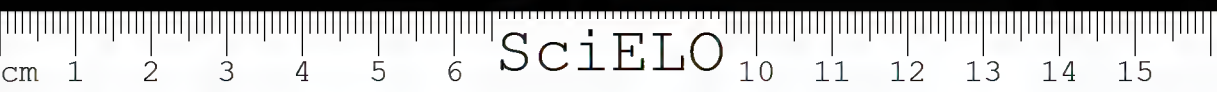
CINEREUS (Röder), 1885:348 (*Nerius*). Type-locality: "Puerto Rico". Distr. — Puerto Rico, Antigua, Jamaica (specimen from Saint Kitts cited by Hennig, 1937a:257 is undescribed). Refs. — Aczél, 1961:446; Steyskal, 1965:60.

*solitarius* Johnson, 1919:446 (*Nerius*). Type-locality: "Jamaica".

## Genus CERANTICHIR Enderlein

CERANTICHIR Enderlein, 1922:155. Type-species, *Nerius flavifrons* Bigot (orig. des.; misident.) = *enderleini* Hennig.

49.1



ENDERLEINI Hennig, 1937a:256. Type-locality: "Costa Rica" (det. Enderlein as *flavifrons*). Distr. — Costa Rica, Guatemala.

#### Genus EOLOXOZUS Aczél

EOLOXOZUS Aczél, 1961:280. Type-species, *sabroskyi* Aczél (orig. des.).

SABROSKYI Aczél, 1961:282, figs. 4-8 (p. 281). Type-locality: Peru, Lima. Distr. — Peru.

#### Genus EONERIA Aczél

EONERIA Aczél, 1951:570. Type-species, *blanchardi* Aczél (orig. des.).

BLANCHARDI Aczél, 1951:571, fig. 20. Type-locality: Argentina, Corrientes, Corrientes. Distr. — Argentina.

MALDONADOI Aczél, 1961:278, figs. 2-3. Type-locality: Argentina, La Rioja. Distr. — Argentina.

#### Genus GLYPHIDOPS Enderlein

GLYPHIDOPS Enderlein, 1922:150. Type-species, *Nerius filiosus* Fabricius (orig. des.).

*Chaetomeristes* Enderlein, 1922:151. Type-species, *bullatus* Enderlein (orig. des.).

#### Subgenus GLYPHIDOPS Enderlein

BULLATUS (Enderlein), 1922:151 (*Chaetomeristes*). Type-locality: Ecuador, Archidona. Distr. — Ecuador.

ELE Aczél, 1961:302, figs. 33, 34, 36. Type-locality: Brazil, São Paulo, Juquiá. Distr. — Brazil, Peru (U.S. Nat. Mus.).

FILIOSUS (Fabricius), 1805:265 (*Nerius*). Type-locality "South America". Distr. — Guatemala and Honduras to Surinam and south to Bolivia and Brazil (São Paulo).

*vittatus* Cresson, 1912:230, pl. 19, figs. 1, 2 (*Telostylus*). Type-locality: Guyana, Bartica district.

OBSCURUS Hennig, 1937a:260. Type-locality: Peru, mouth of Pachitea River. Distr. — Peru, Bolivia, Brazil.

OCIREUS Hennig, 1937a:258. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Peru, Bolivia, Brazil.

PERUANUS (Enderlein), 1922:152 (*Chaetomeristes*). Type-locality: "Peru". Distr. — Peru (Madre de Dios).

XANTHOPUS (Schiner), 1868:247 (*Nerius*). Type-locality: "South America" (Venezuela). Distr. — Mexico (Veracruz, Orizaba; Chiapas), Guatemala, Venezuela, Surinam, Peru.

#### Subgenus ONCOPSIA Enderlein

ONCOPSIA Enderlein, 1922:153 (as genus). Type-species, *mexicana* Enderlein (orig. des.) = *flavifrons* (Bigot).

- Dictyonerius* Enderlein, 1922:159. Type-species, *Nerius pluricellatus* Schiner (orig. des.).
- Brachycerotaphus* Czerny, 1932:301. Type-species, *Nerius flavifrons* Bigot (orig. des.).
- CARRERA Aczél, 1961:316, figs. 55-56. Type-locality: Brazil, São Paulo, São Vicente. Distr. — Brazil.
- DISPAR (Cresson), 1926:261 (*Nerius*). Type-locality: Panama, Portobelo. Distr. — Panama.
- DUBIUS (Hennig), 1937a:254 (*Oncopsia*). Type-locality: Ecuador, Bucay. Distr. — Ecuador.
- DURUS (Cresson), 1926:260 (*Nerius*). Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica, Panama.
- FLAVIFRONS (Bigot), 1886:372 (*Nerius*). Type-locality: "Mexico". Distr. — U.S.A. (Arizona), south to Panama, Trinidad, Guyana, Colombia.
- mexicana* Enderlein, 1922:153 (*Oncopsia*). Type-locality: "Mexico".
- IMBATUS Enderlein, 1922:151. Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- striativentris* Czerny, 1932:297 (*Odontoscelia*). Type-locality: Brazil, Santa Catarina.
- NEUTER (Hennig), 1937a:254 (*Oncopsia*). Type-locality: Peru, Meshagua, Urubamba River. Distr. — Venezuela, Peru, Bolivia, Argentina (Tucumán).
- PLURICELLATUS (Schiner), 1868:248 (*Nerius*). Type-locality: "South America" (Venezuela). Distr. — Costa Rica, Panama, Colombia, Venezuela. Ref. — Aczél, 1961:329.
- SEDUCTRIX (Hennig), 1937:253 (*Oncopsia*). Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Brazil (Amazonas), Bolivia.

#### Genus GYMNONERIUS Hendel

- GYMNONERIUS Hendel, 1913:41. Type-species, *Nerius fuscus* Wiedemann (orig. des.).
- APICALIS (Wiedemann), 1830:550 (*Nerius*). Type-locality: "South America". Species inquirenda; until the species is recognized, it will not be known whether a case is here present of erroneous labeling, a genus different from this otherwise Asiatic one, or an instance of widely disjunct generic distribution. Refs. — Hendel, 1933:58; Hennig, 1937a:266.

#### Genus LONGINA Wiedemann

- LONGINA Wiedemann, 1830:553. Type-species, *abdominalis* Wiedemann (mon.).
- Diateina* Gray, 1832:774. Type-species, *holymenoides* (sic) Gray (mon.) = *abdominalis* Wiedemann. This genus has been attributed to Westwood, but the description is by Gray.
- Macrotoma* Laporte, 1832:459. Type-species, *peleterii* Laporte (mon.) = *abdominalis* Wiedemann.
- ABDOMINALIS Wiedemann, 1830:554, pl. X, fig. 3 (chosen as valid name by first reviser Enderlein, 1922:151). Type-locality: "Brazil". Distr.



- Brazil (Bahia south to Rio Grande do Sul), Paraguay, Argentina (Misiones). The synonyms of this species are founded on variations in development of extreme characters or those of the male.
- vittata* Wiedemann, 1830:549 (*Nerius*). Type-locality: "Brazil".
- holymenoides* Gray, 1832:774, pl. 125, fig. 4 (*Diatcina*). Type-locality: "Brazil".
- hallmenoides*, emend.
- peleterii* Laporte, 1832:459 (*Macrotoma*). Type-locality: "Cochin-China" (erroneous). N. SYN.
- peletieri*, emend.
- peletierii*, emend.
- wiedemanni* Perty, 1833:188, pl. 37, fig. 1. Type-locality: Brazil, "Sebastianopolis" (= Rio de Janeiro, State of Guanabara).

#### Genus *Loxozus* Enderlein

- LOXOZUS* Enderlein, 1922:156. Type-species, *clavicornis* Enderlein (orig. des.).
- CLAVICORNIS* Enderlein, 1922:156. Type-locality: Colombia, Cordilleras, "tier-ra templada". Distr. — Colombia, Bolivia.

#### Genus *Nerius* Fabricius

- NERIUS* Fabricius, 1805:264. Type-species, *pilifer* Fabricius (Coquillett, 1910:575).
- Brachantichir* Enderlein, 1922:156. Type-species, *robustus* Enderlein (orig. des.) = *plurivittatus* Bigot.
- BRACHANTICHIRINUS* Hennig, 1937a:249. Type-locality: Bolivia, Mapiri, Sarapiuni. Distr. — Peru, Bolivia.
- CZERNYI* Aczél, 1961:334, fig. 61. Type-locality: Argentina, Misiones, Puerto Aguirre. Distr. — Argentina, Brazil (São Paulo, Rio Grande do Sul).
- LANEI* Aczél, 1961:340, fig. 63 (p. 335). Type-locality: Brazil, Rio de Janeiro, Angra dos Reis, Fazenda Japuiba. Distr. — Brazil.
- LATICORNIS* Hennig, 1937a:248. Type-locality: Peru, Urubamba River, Umu-huankiali. Distr. — Peru, Bolivia.
- NIGROFUSCUS* (Czerny), 1932:300 (*Brachantichir*). Type-locality: Brazil, Rio de Janeiro, Nova Friburgo. Distr. — El Salvador, Guyana, Ecuador, Brazil. Ref. — Hennig, 1937a:247.
- OCIRACEUS* Schiner, 1868:248. Type-locality: "South America". Distr. — ?. Ref. — Hendel, 1933a:61.
- PILIFER* Fabricius, 1805:264. Type-locality: "South America". Distr. — Mexico (Tabasco), south to Panama, Guyana, Surinam, Colombia, Venezuela, south to Paraguay and Argentina (Tucumán).
- brunneus* Macquart, 1835:493. Type-locality: "Colombia".
- rubescens* Macquart, 1843:399 (sep. p. 242), pl. 32, fig. 6. Type-locality: "Brazil".

- terrebratus* Enderlein, 1922:156. Type-locality: Surinam, Paramaribo; Paraguay, Asunción.
- PLURIVITTATUS Bigot, 1886:372. Type-locality: "Mexico". Distr. — Mexico (Veracruz, Córdoba), south to Panama, Dominican Republic, Trinidad, Guyana, Venezuela, Colombia, Brazil, Peru, Bolivia.
- robusta* Enderlein, 1922:157 (*Brachantichir*). Type-localities: Eastern Bolivia; Peru, Chanchamayo.
- PURPUSIANUS (Enderlein), 1922:157 (*Brachantichir*). Type-locality: Mexico, Chiapas, Soconusco. Distr. — Mexico, Costa Rica, Colombia.
- helvohalterata* Czerny, 1932:299 (*Brachantichir*). Type-locality: Costa Rica, west of San José, farm La Caja.
- TEREBRANS Hennig, 1937a:247. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — Trinidad, Peru (in U.S. Nat. Mus.), Guyana.

#### Genus ODONTOLOXOZUS Enderlein

- ODONTOLOXOZUS Enderlein, 1922:158. Type-species, *punctulatus* Enderlein (orig. des.) = *longicornis* (Coquillett).
- LONGICORNIS (Coquillett), 1904:188 (*Nerius*). Type-locality: U.S.A., Texas, San Diego. Distr. — Southwestern U.S.A., Mexico, Costa Rica. Refs. — Olsen & Ryckman, 1963:454; Ryckman & Olsen, 1963:470.
- punctulatus* Enderlein, 1922:158. Type-locality: Mexico, San Luis Potosi.
- PERUANUS Hennig, 1937a:261. Type-locality: Peru, Urubamba River, Umuhuankiali: Bolivia, Mapiri, Sarampiuni. Distr. — Peru, Bolivia.

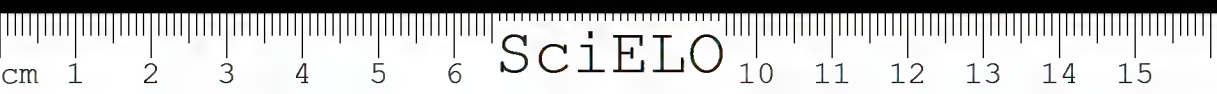
#### UNRECOGNIZED GENERA AND SPECIES

##### Genus ODONTOSCELIA Enderlein

- ODONTOSCELIA Enderlein, 1922:154. Type-species, *Nerius flavipes* Wiedemann. Because the type-species is inquirenda, the genus must also be such.
- FLAVIPES (Wiedemann), 1830:551 (*Nerius*). Type-locality: "Brazil". Species inquirenda. Ref. — Hennig, 1937a:255. Erroneously cited by Aczél, 1949:380, as *flavipennis*.
- MARGINELLUS Rondani, 1848:84 (*Nerius*). Type-locality: "Brazil".

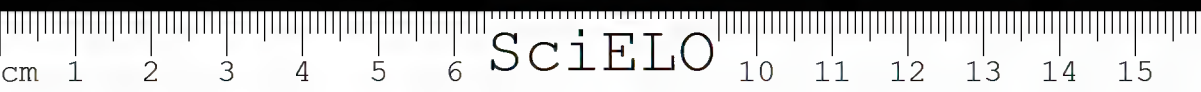
#### LITERATURE CITED

See Fascicle 48 — Family Micropezidae

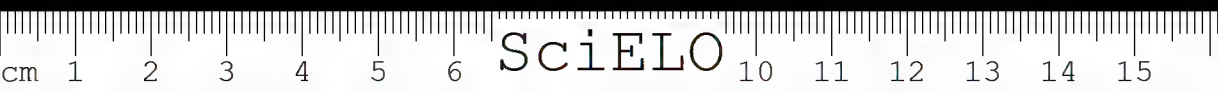


# INDEX

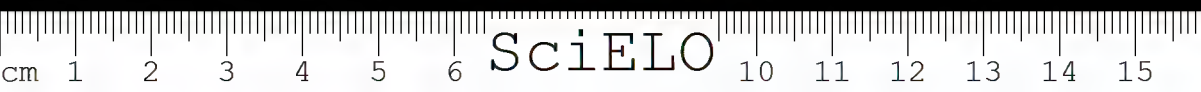
|  |      |
|--|------|
| abdominalis Wiedemann, 1830, Longina .....                         | 49.3 |
| Antillonerius Hennig, 1937 .....                                   | 49.1 |
| apicalis (Wiedemann), 1830 (Nerius), Gymnonerius .....             | 49.3 |
| bistriatus (Williston), 1896 (Nerius), Antillonerius .....         | 49.1 |
| blanchardi Aczél, 1951, Eoneria .....                              | 49.2 |
| Brachantichir Enderlein, 1922 .....                                | 49.4 |
| brachantichirinus Hennig, 1937, Nerius .....                       | 49.4 |
| Brachycrotaphus Czerny, 1932 .....                                 | 49.3 |
| brunneus Macquart, 1835, Nerius .....                              | 49.4 |
| bullatus (Enderlein), 1922 (Chaetomeristes), Glyphidops .....      | 49.2 |
| carrerae Aczél, 1961, Glyphidops .....                             | 49.3 |
| Cerantichir Enderlein, 1922 .....                                  | 49.1 |
| Chaetomeristes Enderlein, 1922 .....                               | 49.2 |
| cinereus (Röder), 1885 (Nerius), Antillonerius .....               | 49.1 |
| clavicornis Enderlein, 1922, Loxozus .....                         | 49.4 |
| czernyi Aczél, 1961, Glyphidops .....                              | 49.4 |
| Diateina Gray, 1832 .....  | 49.3 |
| Dictyonerius Enderlein, 1922 .....                                 | 49.3 |
| dispar (Cresson), 1926 (Nerius), Glyphidops .....                  | 49.3 |
| dubius (Hennig), 1937 (Oncopsia), Glyphidops .....                 | 49.3 |
| durus (Cresson), 1926 (Nerius), Glyphidops .....                   | 49.3 |
| enderleini Hennig, 1937, Cerantichir .....                         | 49.2 |
| Eoloxozus Aczél, 1961 .....  | 49.2 |
| Eoneria Aczél, 1951 .....  | 49.2 |
| etele Aczél, 1961, Glyphidops .....                                | 49.2 |
| filosus (Fabricius), 1805 (Nerius), Glyphidops .....               | 49.2 |
| flavifrons (Bigot), 1886 (Nerius), Glyphidops .....                | 49.3 |
| flavipennis, error for flavipes .....                              | 49.5 |
| flavipes (Wiedemann), 1830 (Nerius), Odontoscelia, sp. inquir .... | 49.5 |
| Glyphidops Enderlein, 1922 .....                                   | 49.2 |
| Gymnonerius Hendel, 1913 .....                                     | 49.3 |
| halimenoides, see holymenoides                                     |      |
| helvohalterata (Czerny), 1932 (Brachantichir), Nerius .....        | 49.5 |
| holymenoides Gray, 1832 (Diateina), Longina .....                  | 49.4 |
| Imrenerius Aczél, 1961 .....                                       | 49.1 |
| lanei Aczél, 1961, Nerius .....                                    | 49.4 |
| laticornis Hennig, 1937, Nerius .....                              | 49.4 |
| limbatus Enderlein, 1922, Glyphidops .....                         | 49.3 |
| longicornis (Coquillett), 1904 (Nerius), Odontoloxozus .....       | 49.5 |
| Longina Wiedemann, 1830 .....                                      | 49.3 |
| Loxozus Enderlein, 1922 .....                                      | 49.4 |
| Macrotoma Laporte, 1832 .....                                      | 49.3 |
| maldonadoe Aczél, 1961, Eoneria .....                              | 49.2 |



|   |      |
|---|------|
| <i>marginellus</i> Rondani, 1848, <i>Nerius</i> , sp. inquir. ....                    | 49.5 |
| <i>mexicana</i> (Enderlein), 1922 ( <i>Oncopsia</i> ), <i>Glyphidops</i> .....        | 49.3 |
| <i>Neriinae</i> .....   | 49.1 |
| <i>Nerius</i> Fabricius, 1805 .....   | 49.4 |
| <i>neuter</i> (Hennig), 1937 ( <i>Oncopsia</i> ), <i>Glyphidops</i> .....             | 49.3 |
| <i>nigrofuscus</i> (Czerny), 1932 ( <i>Brachantichir</i> ), <i>Nerius</i> .....       | 49.4 |
| <i>obscurus</i> Hennig, 1937, <i>Glyphidops</i> .....                                 | 49.2 |
| <i>ochraceus</i> Schiner, 1868, <i>Nerius</i> .....                                   | 49.4 |
| <i>ochreus</i> Hennig, 1937, <i>Glyphidops</i> .....                                  | 49.2 |
| <i>Odontoloxozus</i> Enderlein, 1922 .....  | 49.5 |
| <i>Odontoscelia</i> Enderlein, 1922, genus inquir. ....                               | 49.5 |
| <i>Oncopsia</i> Enderlein, 1922 .....   | 49.2 |
| <i>peleterii</i> (Laporte), 1932 ( <i>Macrotoma</i> ), <i>Longina</i> .....           | 49.4 |
| <i>peleterii</i> , -ii, see <i>peleterii</i>  |      |
| <i>peruanus</i> (Enderlein), 1922 ( <i>Chaetomeristes</i> ), <i>Glyphidops</i> .....  | 49.2 |
| <i>peruanus</i> Hennig, 1937, <i>Odontoloxozus</i> .....                              | 49.5 |
| <i>pilifer</i> Fabricius, 1805, <i>Nerius</i> .....                                   | 49.4 |
| <i>pluricellatus</i> (Schiner), 1868 ( <i>Nerius</i> ), <i>Glyphidops</i> .....       | 49.3 |
| <i>plurivittatus</i> Bigot, 1886, <i>Nerius</i> .....                                 | 49.5 |
| <i>punctulatus</i> Enderlein, 1922, <i>Odontoloxozus</i> .....                        | 49.5 |
| <i>purpusianus</i> (Enderlein), 1922 ( <i>Brachantichir</i> ), <i>Nerius</i> .....    | 49.5 |
| <i>robusta</i> (Enderlein), 1922 ( <i>Brachantichir</i> ), <i>Nerius</i> .....        | 49.5 |
| <i>rubescens</i> Macquart, 1843, <i>Nerius</i> .....                                  | 49.4 |
| <i>sabroskyi</i> Aczél, 1961, <i>Eoloxozus</i> .....                                  | 49.2 |
| <i>seductrix</i> (Hennig), 1937 ( <i>Oncopsia</i> ), <i>Glyphidops</i> .....          | 49.3 |
| <i>solitarius</i> (Johnson), 1919 ( <i>Nerius</i> ), <i>Antillonerius</i> .....       | 49.1 |
| <i>striativentris</i> (Czerny), 1932 ( <i>Odontoscelia</i> ), <i>Glyphidops</i> ..... | 49.3 |
| <i>terebrans</i> Hennig, 1937, <i>Nerius</i> .....                                    | 49.5 |
| <i>terebratus</i> Enderlein, 1922, <i>Nerius</i> .....                                | 49.5 |
| <i>vittata</i> (Wiedemann), 1830 ( <i>Nerius</i> ), <i>Longina</i> .....              | 49.4 |
| <i>vittatus</i> (Cresson), 1912 ( <i>Telostylus</i> ), <i>Glyphidops</i> .....        | 49.2 |
| <i>wiedemanni</i> Perty, 1833, <i>Longina</i> .....                                   | 49.4 |
| <i>xanthopus</i> (Schiner), 1868 ( <i>Nerius</i> ) <i>Glyphidops</i> .....            | 49.2 |







SciELO

MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(FORMERLY DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

49A

## FAMILY CYPSELOSOMATIDAE

ANGELO PIRES DO PRADO

*Departamento de Parasitologia,  
Universidade Estadual de Campinas, São Paulo*

Cypselosomatids are a small family of minute to medium-sized, brown to black and yellow flies related to Micropezoidea.

The genus *Heloclusia* Malloch was described in the Heleomyzidae, and *Latheticomyia* Wheeler as "incertae sedis" and later transferred to Pseudopomyzidae by Hennig (1969).

The immature stages and larval habits are unknown.

Refs.: Hennig (1969; 1971).

## Genus HELOCLUSIA Malloch

HELOCLUSIA Malloch, 1933:184. Type-species, *imperfecta* Malloch (orig. des.).

IMPERFECTA Malloch, 1933:186, text-figs. 36-37, pl. 2, fig. 13. Type-locality: Chile, Concepción. Distr. - Peru (Aysen, Puerto Cisnes); Chile; Argentina (Lake Nahuel Huapi; SW Rio Negro Prov.). Refs.: Gill, 1968:4, Hennig, 1969:591, figs. 7, 14.

## Genus LATHETICOMYIA Wheeler

LATHETICOMYIA Wheeler, 1956:306. Type-species, *tricolor* Wheeler (orig. des.).

INFUMATA Wheeler, 1956:312, fig. 2, e, f. Type-locality: Nicaragua, Santa Maria de Ostuma, north of Matagalpa. Distr. - Nicaragua.

LONGITEREBRA Hennig, 1969:592, figs. 1-2. Type-locality: Peru, Madre de Dios, Avispas. Distr. - Peru (Madre de Dios; Cuzco).

ROTUNDICORNIS Hennig, 1969:592, figs. 3-4. Type-locality: Mexico, Durango, 10 km west El Salto. Distr. - Mexico.

sp. 1 Hennig, 1969:591 ("infumata group"). Ecuador, Guayas, Chico, Balao, Rio Frio.

sp. 2 Hennig, 1969:591 ("infumata group"). Brazil, Santa Catarina, Nova Teutônia.

## Genus PSEUDOPOMYZELLA Hennig

PSEUDOPOMYZELLA Hennig, 1969:594. Type-species, *flava* Hennig (orig. des.).

FLAVA Hennig, 1969:595, figs. 5-6, 9, 11, 20, 22. Type-locality: Peru, Madre de Dios, Avispas. Distr. - Peru; Ecuador (Napo Pastaza Prov.).

## Genus RHINOPOMYZELLA Hennig

RHINOPOMYZELLA Hennig, 1969:596. Type-species, *nigrimana* Hennig (orig. des.).

ALBIMANA Hennig, 1969:598, figs. 10, 16. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. - West Indies (Jamaica); Ecuador (Pichincha; Azuay); Brazil.

NIGRIMANA Hennig, 1969:599, figs. 8, 13, 15, 19, 21, 23-24. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. - West Indies (Jamaica); Brazil.

49A.1

# LITERATURE CITED

GILL, D.G.

1968. *Fasc. 85. Family Heleomyzidae*. 13 pp. In: Papavero, N. ed., "*A Catalogue of the Diptera of the Americas South of the United States*". Museu de Zoologia, Universidade de São Paulo, São Paulo.

HENNIG, W.

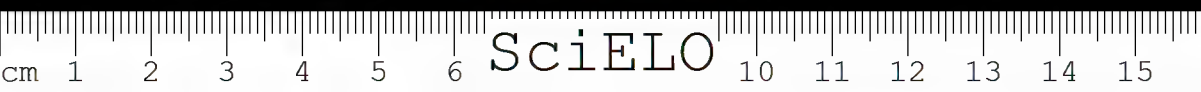
1969. Neue Gattungen und Arten der Acalyptratae. *Canad. Ent.* 101(6): 589-633, 72 figs.  
1971. Neue Untersuchungen über die Familien der Diptera Schizophora (Diptera: Cyclorrhapha). *Stuttgart. Beitr. Naturk.* 226: 1-76, 108 figs.

MALLOCH, J.R.

1933. *Acalyptrata*, pp. 177-391, figs. 36-68, pls. 2-7. In: British Museum (Natural History), *Diptera of Patagonia and South Chile*, Pt. 6, Fasc. 4, 499 pp., 84 figs., 8 pls., London.

WHEELER, M.R.

1956. *Latheticomyia*, a new genus of Acalyptrate flies of uncertain family relationship. *Proc. U.S. Natl. Mus.* 106 (nº 3368): 305-314, 2 figs.



MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

50

## FAMILY PSILIDAE

ANGELO PIRES DO PRADO

*Departamento de Zoologia, Setor de Parasitologia  
Universidade Estadual de Campinas, São Paulo, Brasil*

This family is poorly known in the Neotropical Region. No immature stages of strictly Neotropical species are known. Nine species have been described from "South America", Mexico, and Brazil, assigned to the genera *Chyliza* Fallén and *Psila* Meigen.

There is no revisional study of the Neotropical species, and the identity of the old species is not yet properly established.

## Subfamily PSILINAE

## Tribe PSILINI

## Genus PSILA Meigen

PSILA Meigen, 1803:278. Type-species, *Musca fimetaria* Linnaeus (aut.).

EXIGUA Wulp, 1896:361. Type-locality: Mexico, Guerrero, Xucumanatlán. Distr. — Mexico.

## Tribe CHYLIZINI

## Genus CHYLIZA Fallén

CHYLIZA Fallén, 1820:6. Type-species, *Musca leptogaster* Panzer (Westwood, 1840:14).

*Tetradiscus* Bigot, 1886:370. Type-species, *pictus* Bigot (Coquillett, 1910:613) = *apicalis* Loew.

## Subgenus CHYLIZA Fallén

ANGRENSIS Albuquerque, 1957:4, fig. 9, pl. 2, figs. 10-15. Type-locality: Brazil, Rio de Janeiro, Angra dos Reis, Japuíba. Distr. — Brazil (Rio de Janeiro).

APICALIS Loew, 1860:82. Type-locality: U.S.A., Washington, D.C. Distr. — U.S.A. (Colorado to se. Canada, s. to Louisiana and Georgia); Mexico (Tuxpango). Ref. — Giglio-Tos, 1892:64.

50.1



- pictus* Bigot, 1886:370 (*Tetradiscus*). Type-locality: U.S.A., "Rocky Mts."
- BIGOTI Melander, 1920:97 (nom. nov. for *notatus* Bigot). Type-locality: "Mexico". Distr. — Mexico.
- notatus* Bigot, 1886:371 (*Tetradiscus*; preocc. Loew, 1869). Type-locality: "Mexico".
- COMPEDITA Wiedemann, 1830:531. Type-locality: "South America". Unrecognized.
- CONSANGUINEA Schiner, 1868:379. Type-locality: "South America". Distr. — Brazil. Ref. — Albuquerque, 1957:2, fig. 1, pl. 1, figs. 2-8.
- ENTHEA Giglio-Tos, 1892:64. Type-locality: Mexico, Tuxpango. Distr. — Mexico.
- RUBRONIGRA Albuquerque, 1957:6, fig. 10, pl. 2, figs. 17-21. Type-locality: Brazil, Guanabara, Rio de Janeiro, Jacarepaguá, Pau da Fome. Distr. — Brazil (Guanabara).
- VARIPES Wulp, 1896:361. Type-locality: Mexico, Guerrero, Venta de Zopilote, Chilpancingo, Amula, and Tabasco, Teapa. Distr. — Mexico.

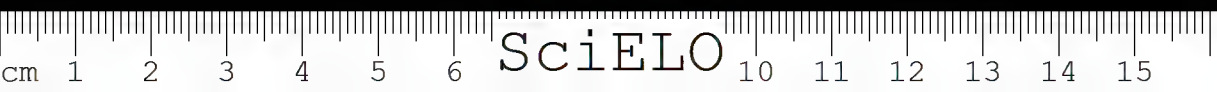
#### LITERATURE CITED

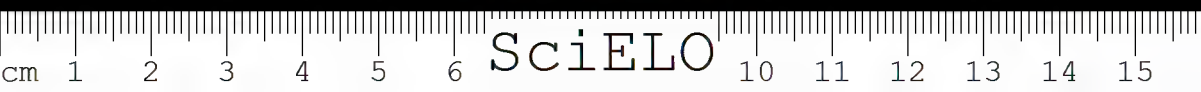
- ALBUQUERQUE, D. O.  
1957. Fauna do Distrito Federal. 37. Redescricao de *Chyliza consanguinea* Schiner, 1868 e descricao de duas espécies novas (Diptera-Psilidae). *Bol. Mus. Nac., Rio de Janeiro, Zool.* 162: 1-11, 21 figs.
- BIGOT, J. M. F.  
1886. Diptères nouveaux ou peu connus. 29e. partie (Suite). XXXVII. 2e. Essai d'une classification synoptique du groupe des Tanypezidi (mihi) et description de genres et d'espèces inédits. *Ann. Soc. Ent. France* (6)6:389-392.
- FALLÉN, C. F.  
1820. *Opomyzides Sveciae*, 12 pp. Lundae (= Lund).
- GIGLIO-TOS, E.  
1892. *Ditteri del Messico 1* : 72 pp., 1 pl. Torino (Also published in *Mem. R. Accad. delle Sci. Torino* (Cl. di Sci. Fis., Mat. e Nat.) 43:99-168, 1 pl., 1893).
- LOEW, H.  
1860. *Diptera Americana ab Osten-Sackenio collecta. Decas prima.* *Wien. ent. Monatschr.* 4:79-84.
- MEIGEN, J. W.  
1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Mag. f. Insektenkunde* 2:259-281.
- MELANDER A. L.  
1920. Synopsis of the dipterous family Psilidae. *Psyche* 27(5):91-101.

- PANZER, G. W. F.  
1798. *Faunae insectorum Germanicae initiae oder Deutschlands Insekten* (H.) 54 : 24 pp., 24 pls. Nürnberg.
- SCHINER, I. R.  
1868. Diptera (Art. 1), 388 pp., in B. von Wüllersdorf-Urbair, *Reise der österreichischen Fregatte Novara*, Zool. 2(1,B). Wien.
- WESTWOOD, J. O.  
1840. *An introduction to the modern classification of insects. Synopsis of the genera of British Insects*, 158 pp., London.
- WIEDEMANN, C. R. W.  
1830. *Aussereuropäische zweiflügelige Insekten* 2 : xii + 684 pp., 5 pls. Hamm.
- WULP, F. M. VAN DER  
1896. Fam. Muscidae (concl.), pp. 361-368, in F. D. Godman & O. Salvin, eds., *Biologia Centrali Americana. Zoologia-Insecta-Diptera* 2 : 489 pp., 11 figs., 13 pls.

# INDEX

|  |      |
|--|------|
| angrensis Albuquerque, 1957, Chyliza .....         | 50.1 |
| apicalis Loew, 1860, Chyliza .....                 | 50.1 |
| bigoti Melander, 1920, Chyliza .....               | 50.2 |
| Chyliza Fallén, 1820 .....                         | 50.1 |
| Chylizini .....                                    | 50.1 |
| compedita Wiedemann, 1830, Chyliza .....           | 50.2 |
| consanguinea Schiner, 1868, Chyliza .....          | 50.2 |
| enthea Giglio-Tos, 1892, Chyliza .....             | 50.2 |
| exigua Wulp, 1896, Psila .....                     | 50.1 |
| notatus (Bigot), 1886 (Tetradiscus), Chyliza ..... | 50.2 |
| pictus (Bigot), 1886 (Tetradiscus), Chyliza .....  | 50.2 |
| Psila Meigen, 1803 .....                           | 50.1 |
| Psilinae .....                                     | 50.1 |
| Psilini .....                                      | 50.1 |
| rubronigra Albuquerque, 1957, Chyliza .....        | 50.2 |
| Tetradiscus Bigot, 1886 .....                      | 50.1 |
| varipes Wulp, 1896, Chyliza .....                  | 50.2 |





SciELO

## MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

## 51

## FAMILY SYRINGOGASTRIDAE

ANGELO PIRES DO PRADO

*Departamento de Zoologia, Setor de Parasitologia  
Universidade Estadual de Campinas, São Paulo, Brasil*

The Syringogastridae are small flies, with slender, clavate abdomen; legs slender, but posterior femora straight and thickened, spinose underneath. Until recently they have been included with the Megamerinidae. They are confined to the Neotropical Region and all known species are listed here. The immature stages are unknown.

Ref. — Prado, 1969 (rev.).

## Genus SYRINGOGASTER Cresson

SYRINGOGASTER Cresson, 1912:392. Type-species, *rufa* Cresson (orig. des.).

AMAZONENSIS Prado, 1969:12, figs. 5, 29. Type-locality: Brazil, Pará, Estrada Belém-Bragança, km 100. Distr. — Brazil (Pará).

BRUNNEA Cresson, 1912:394. Type-locality: Costa Rica, Peralta Station. Distr. — Costa Rica, Panama; ?Bolivia. Refs. — Curran, 1934: 373; Hennig, 1958:542, fig. 127c.

CARIOCA Prado, 1969:20, figs. 8, 50-55. Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Brazil (Guanabara).

CRESSONI Prado, 1969:18, figs. 10, 41-48. Type-locality: Brazil, Pará, Fazenda Velha. Distr. — Brazil; ?Peru.

LANEI Prado, 1969:6, figs. 1, 6, 11-19. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (São Paulo).

LOPESI Prado, 1969:14, figs. 3, 9, 30-40. Type-locality: Brazil, Bahia, Salvador. Distr. — Brazil (Bahia).

PAPAVEROI Prado, 1969:10, figs. 2, 4, 7, 20-28. Type-locality: Brazil, São Paulo, Barueri. Distr. — Brazil (Guanabara, Rio de Janeiro, São Paulo).

RUFA Cresson, 1912:393, pl. 19, figs. 5-6. Type-locality: Costa Rica, Río Surubres, Bonnefil Farm. Distr. — Costa Rica, Panama.



# Unrecognized species

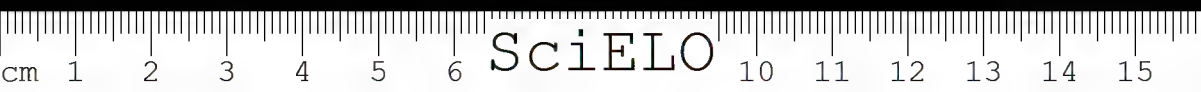
FULVIDA Bigot, 1886:394 (*Megamerina*). Type- locality: "Mexico". Distr. — Mexico. Ref. — Prado, 1969:22.

## LITERATURE CITED

- BIGOT, J. M. F.  
1886. Diptères nouveaux ou peu connus. 29e. partie (Suite). XXXVII. 2e. Essai d'une classification synoptique du groupe des Tanypezidi (mihi) et description de genres et d'espèces inédits. *Ann. Soc. Ent. France* (6)6:369-392.
- CRESSON E. T.  
1912. Descriptions of several new neotropical acalyptrate Diptera. *Ent. News* 23:389-396.
- CURRAN, C. H.  
1934. *The families and genera of North American Diptera*, 512 pp. illus. Ballou Press, New York.
- HENNIG, W.  
1958. Die Familien der Diptera Schizophora und ihre phylogenetischen Verwandtschaftsbeziehungen. *Beitr. z. Ent.* 8(5-6):505-688, 365 figs.
- PRADO, A. P. DO  
1969. Syringogastridae, uma nova família de dípteros Acalyptratae, com a descrição de seis espécies novas do gênero *Syringogaster* Cresson. *Studia Ent.*, Rio de Janeiro 12(1-4):1-32, 82 figs.

## INDEX

|   |      |
|---|------|
| amazonensis Prado, 1969, <i>Syringogaster</i> ..... | 51.1 |
| brunnea Cresson, 1912, <i>Syringogaster</i> .....   | 51.1 |
| carioca Prado, 1969, <i>Syringogaster</i> .....     | 51.1 |
| cressoni Prado, 1969, <i>Syringogaster</i> .....    | 51.1 |
| fulvida Bigot, 1886 ( <i>Megamerina</i> ) .....     | 51.2 |
| lanei Prado, 1969, <i>Syringogaster</i> .....       | 51.1 |
| lopesi Prado, 1969, <i>Syringogaster</i> .....      | 51.1 |
| papaveroi Prado, 1969, <i>Syringogaster</i> .....   | 51.1 |
| rufa Cresson, 1912, <i>Syringogaster</i> .....      | 51.1 |
| <i>Syringogaster</i> Cresson, 1912 .....            | 51.1 |



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

52

## FAMILY TANYPEZIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.*  
*U. S. Department of Agriculture*  
*Washington, D. C.*

The Tanypezidae are small to medium-sized flies with a uniform, characteristic appearance. The biology and immature stages are unknown. There is one holarctic species and one nearctic species; the remainder are neotropical and here listed. The most recent works on the group are by Hennig (1936) and Enderlein (1936), both in the same publication. The typical genus *Tanypeza* Fallén includes only the 2 species of the northern hemisphere.

## Genus NEOTANYPEZA Hendel

NEOTANYPEZA Hendel, 1903:203. Type-species, *Tanypeza elegans* Wiedemann (Enderlein, 1913:225).

## Subgenus NEOTANYPEZA Hendel

ELEGANS (Wiedemann), 1830:528 (*Tanypeza*). Type-locality: "Brazil".  
Distr. — Costa Rica, West Indies (St. Vincent I.), Brazil, Peru, Bolivia, Paraguay

*claripennis* Schiner, 1868:247 (*Tanypeza*). Type-locality: "Brazil".

ORNATIPES (Bigot), 1886:380 (*Taeniptera*). Type-locality: "Mexico". Distr.  
— Mexico, Guatemala.

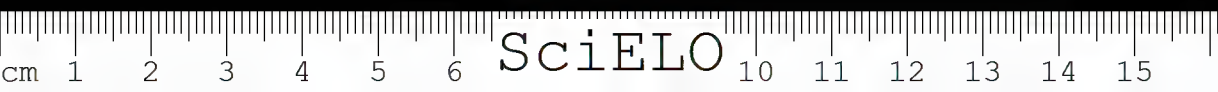
*mexicana* Giglio-Tos, 1893:14 (1895:61) (*Tanypeza*). Type-locality:  
Mexico, Orizaba, and Tuxpango.

*pallidipennis* Bigot, 1886:380 (*Taeniptera*). Type-locality: "Mexico".

## Subgenus POLPHOPEZA Enderlein

POLPHOPEZA Enderlein, 1913:226 (as genus). Type-species, *quadrissetosa* Enderlein (orig. des.).

52.1



APICALIS (Wiedemann), 1830:529 (*Tanypeza*). Type-locality: "Brazil".  
Distr. — Peru, Bolivia, Brazil.

*abdominalis* Wiedemann, 1830:529 (*Tanypeza*). Type-locality: "Brazil".  
N. SYN.

FLAVITIBIA Hennig, 1936:34. Type-locality: Peru, Rosalina, Urubamba River.  
Distr. — ?Venezuela, Ecuador, Peru.

MONTANA (Enderlein), 1936:40 (*Polphopeza*). Type-locality: Colombia,  
Cordilleras, tierra fria. Distr. — Colombia.

QUADRISETOSA (Enderlein), 1913:227 (*Polphopeza*). Type-locality: Ecuador,  
Baños. Distr. — Ecuador.

#### Subgenus TRIPHOLHOPEZA Enderlein

TRIPHOLHOPEZA Enderlein, 1936:39, 41 (as genus). Type-species, *Polphopeza  
elegantina* Enderlein (orig. des.).

ELEGANTINA (Enderlein), 1913:227 (*Polphopeza*). Type-locality: Brazil,  
Santa Catarina. Distr. — Brazil.

#### Subgenus TRITANYPEZA Enderlein

TRITANYPEZA Enderlein, 1936:40, 42 (as genus). Type-species, *cubitofusca*  
Enderlein (orig. des.).

CUBITOFUSCA (Enderlein), 1936:44 (*Tritanypeza*). Type-locality: Paraguay,  
San Bernardino. Distr. — Paraguay.

DALLASI (Shannon), 1927:41 (*Tanypeza*). Type-locality: Argentina, Tu-  
cumán, Quebrada de Lules. Distr. — Ecuador, Brazil, Argentina.

FLAVIBASIS (Enderlein), 1936:45 (*Tritanypeza*). Type-locality: "Brazil".  
Distr. — Brazil.

FLAVICALX (Enderlein), 1936:46 (*Tritanypeza*). Type-locality: Colombia,  
tierra caliente. Distr. — Colombia.

FLAVOHIRTA (Enderlein), 1913:226 (*Tanypeza*). Type-locality: "Costa Rica".  
Distr. — Guatemala, Costa Rica.

NIGRIPALPIS Hennig, 1936:36. Type-locality: Peru, Chanchamayo. Distr. —  
?Venezuela, Colombia, Brazil, Peru.

OCHRIPEMUR (Enderlein), 1936:45 (*Tritanypeza*). Type-locality: Paraguay,  
San Bernardino. Distr. — Guatemala, Ecuador, Paraguay.

RUFIVENTRIS (Enderlein), 1936:46 (*Tritanypeza*). Type-locality: Venezuela  
[as Bolivia], Caracas. Distr. — Venezuela.

RUTILA (Wulp), 1897:362, pl. 9, fig. 15 (*Tanypeza*). Type-locality: Mexico,  
Guerrero, Sierra de las Aguas Escondidas and Omilteme. Distr.  
— Mexico.

#### Genus SCIPOPEZA Enderlein

SCIPOPEZA Enderlein, 1913:228. Type-species, *grandis* Enderlein (orig. des.).

DIMORPHA Hennig, 1936:37. Type-locality: Peru, Pichis road. Distr. —  
Peru.

GRANDIS Enderlein, 1913:228. Type-locality: Ecuador, Baños. Distr. -- Ecuador.

#### UNPLACED SPECIES

CALLITARSIS Rondani, 1850:181 (*Tanipeza*). Type-locality: "Venezuela".

#### LITERATURE CITED

MEGOT, J. M. F.

1886. Diptères nouveaux ou peu connus. 29e. partie, etc. *Ann. Soc. Ent. France* (6) 6:287-392.

ENDERLEIN, C.

1913. Dipterologische Studien. 11. Zur Kenntnis der Tanypezinen. *Zool. Anzeiger* 42:224-229.

1936. Klassifikation der Tanypeziden. *Deutsch. Ent. Zeitschr.* 1936: 39-47.

GIGLIO-TOS, E.

1893. Diagnosi di nuovi generi e di nuove specie di Ditteri. IX. *Boll. Mus. Zool. Anat. Comp. R. Univ. Torino* 8(n° 158):1-14. (More extended descriptions in 1895. Ditteri del Messico, parte IV. *Mem. R. Accad. Sci. Torino* (2) 45:1-73, 1 pl.).

HENDEL, F.

1903. Ueber die systematische Stellung von *Tanypeza* Fall. (Dipt.). *Wien. Ent. Ztg.* 22:201-205.

HENNIG, W.

1936. Beiträge zur Kenntnis des Kopulationsapparates und der Systematik der Tanypeziden (Dipt., Acalypt.). *Deutsch. Ent. Zeitschr.* 1936:27-38.

RONDANI, C.

1850. Osservazione sopra alcune specie di esapodi ditteri del Museo Torinese. *Nuovi Ann. Sci. Nat. Bologna* (3) 2:165-197, pl.

SCHINER, I. R.

1868. Diptera, in B. von Wüllersdorf-Urbair: *Reise der österreichischen Fregatte Novara*, *Zool.* 2(1B):1-388, pls. 1-4.

SHANNON, R. C.

1927. Some new Diptera from Argentina. *Rev. Soc. Ent. Argentina* 4:31-42.

WIEDEMANN, C. R. W.

1830. *Aussereuropäische zweiflügelige Insekten* 2:xii + 684 pp., 5 pls. Hamm.

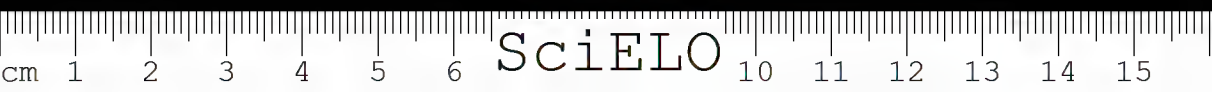
WULP, F. M. VAN DER

1897. In F. D. Godman & O. Salvin, eds.: *Biologia Centrali-Americana, Zoologia-Insecta-Diptera* 2:362-363, pl. 9.



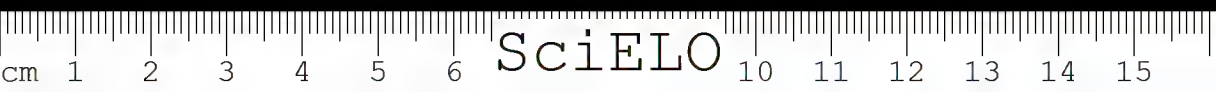
# INDEX

|   |      |
|---|------|
| <i>abdominalis</i> (Wiedemann), 1830 (Tanypeza), Neotanypeza .....    | 52.2 |
| <i>apicalis</i> (Wiedemann), 1830 (Tanypeza), Neotanypeza .....       | 52.2 |
| <i>callitarsis</i> Rondani, 1850 (Tanipeza), unplaced .....           | 52.3 |
| <i>claripennis</i> (Schiner), 1868 (Tanypeza), Neotanypeza .....      | 52.1 |
| <i>cubitofusca</i> (Enderlein), 1936 (Tritanypeza), Neotanypeza ..... | 52.2 |
| <i>dallasi</i> (Shannon), 1927 (Tanypeza), Neotanypeza .....          | 52.2 |
| <i>dimorpha</i> Hennig, 1936, Scipopeza .....                         | 52.2 |
| <i>elegans</i> (Wiedemann), 1830 (Tanypeza), Neotanypeza .....        | 52.1 |
| <i>elegantina</i> (Enderlein), 1913 (Polphopeza), Neotanypeza .....   | 52.2 |
| <i>flavibasis</i> (Enderlein), 1936 (Tritanypeza), Neotanypeza .....  | 52.2 |
| <i>flavicalx</i> (Enderlein), 1936 (Tritanypeza), Neotanypeza .....   | 52.2 |
| <i>flavitibia</i> Hennig, 1936, Neotanypeza .....                     | 52.2 |
| <i>flavohirta</i> (Enderlein), 1913 (Tanypeza), Neotanypeza .....     | 52.2 |
| <i>grandis</i> Enderlein, 1913, Scipopeza .....                       | 52.3 |
| <i>melanopus</i> (Bigot), Tanypeza (see Micropezidae)                 |      |
| <i>mexicana</i> (Giglio-Tos), 1893 (Tanypeza), Neotanypeza .....      | 52.1 |
| <i>montana</i> (Enderlein), 1936 (Polphopeza), Neotanypeza .....      | 52.2 |
| Neotanypeza Hendel, 1903 .....  | 52.1 |
| <i>nigripalpis</i> Hennig, 1936, Neotanypeza .....                    | 52.2 |
| <i>ochrifemur</i> (Enderlein), 1936 (Tritanypeza), Neotanypeza .....  | 52.2 |
| <i>ornatipes</i> (Bigot), 1886 (Taeniptera), Neotanypeza .....        | 52.1 |
| <i>pallidipennis</i> (Bigot), 1886 (Taeniptera), Neotanypeza .....    | 52.1 |
| Polphopeza Enderlein, 1913 .....                                      | 52.1 |
| <i>quadrisetosa</i> (Enderlein), 1913 (Polphopeza), Neotanypeza ..... | 52.2 |
| <i>rufiventris</i> (Enderlein), 1936 (Tritanypeza), Neotanypeza ..... | 52.2 |
| <i>rutila</i> (Wulp), 1897 (Tanypeza), Neotanypeza .....              | 52.2 |
| Scipopeza Enderlein, 1913 .....                                       | 52.2 |
| Tripolphopeza Enderlein, 1936 .....                                   | 52.2 |
| Tritanypeza Enderlein, 1936 .....                                     | 52.2 |



SUPERFAMILY TEPHRITOIDEA

- Family Richardiidae
- Family Otitidae
- Family Platystomatidae
- Family Pyrgotidae
- Family Tephritidae
- Family Tachiniscidae



SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

53

## FAMILY RICHARDIIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D.C.*

The Richardiidae were for a long time considered a subfamily of the Otitidae (formerly Ortalidae), but are now generally regarded as of family rank. The family is restricted to the American continents and is mainly of tropical distribution. Since only 5 species are extra-limital to this catalogue, they have been included within parentheses for the sake of completeness, thus making the present list complete for all known species.

Very little is known about the biology of the Richardiidae, but they are likely saprophagous. The only immature stage known is of *Epiplatea hondurana* Steyskal (1958:306, puparium).

The species were reviewed by Hendel (1911a, 1911b) and Hennig (1937, 1938a), those of North America were reviewed by Steyskal (1958), and the species were last catalogued by Aczél (1950).

## Genus ACOMPHA Hendel

ACOMPHA Hendel, 1911a:184, 389. Type-species, *punctifrons* Hendel (mon.).

PUNCTIFRONS Hendel, 1911a:389. Type-locality: Bolivia, Songo. Distr. — Bolivia.

## Genus ANTINEUROMYIA Hendel

ANTINEUROMYIA Hendel, 1914c:174. Type-species, *clavata* Hendel (orig. des.).

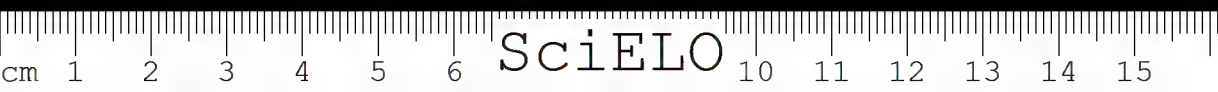
APPENDICULATA Hennig, 1937:314. Type-locality: Peru. Meshagua, Urubamba River. Distr. — Peru.

CLAVATA Hendel, 1914c:175, fig. 16. Type-locality: Trinidad, Port-of-Spain. Distr. — Trinidad.

## Genus AUTOMOLA Loew

AUTOMOLA Loew, 1873:118. Type-species, *Ortalis atomaria* Wiedemann (Coquillett, 1910:512).

53.1





*Wulpia* Bigot, 1886:298, 371. Type-species, *caloptera* Bigot (mon.).  
Ref. — Steyskal, 1958:303 (revision).

ATOMARIA (Wiedemann), 1830a:461 (*Ortalis*). Type-locality: "Brazil". Distr.  
— Mexico ("Tuxpango"), Brazil, Peru, Bolivia, Paraguay, Argentina (Misiones).

*trifasciata* Wiedemann, 1830a:461 (*Ortalis*). Type-locality: not cited.  
*mexicanum* Giglio-Tos, 1893:12; 1895:46, pl., fig. 24 (*Platystoma*).  
Type-locality: Mexico, "Tuxpango".

*leopardina* Blanchard, 1938:92. Type-locality: Argentina, Misiones,  
Puerto Bemberg.

CALOPTERA (Bigot), 1886:371 (*Wulpia*). Type-locality: Brazil, Bahia. Distr.  
— Brazil, Peru, Bolivia.

RUFIA Cresson, 1906:282. Type-locality: U.S.A., New Mexico, Alamogordo.  
Distr. — U.S.A. (southwestern States), Mexico (Aguascalientes,  
Queretaro, Morelos).

*dohanniani* Johnson, 1921:58 (*Epiplatea*). Type-locality: U.S.A., Texas,  
near San Antonio.

*dohanniani*, error.

#### Genus BATRACHOPHTHALMUM Hendel

BATRACHOPHTHALMUM Hendel, 1911a:183, 394. Type-species, *rufiventre* Hendel  
(mon.).

RUFIVENTRE Hendel, 1911a:394; 1911b: pl. 3, figs. 71-73. Type-locality: Peru,  
Callanga. Distr. — Peru.

#### Genus BEEBEOMYIA Curran

*Zeugma* Cresson, 1908:95 (preocc. Westwood, 1840). Type-species, *palposa*  
Cresson (orig. des.)

BEEBEOMYIA Curran, 1934a:423. Type-species, *versicolor* Curran (orig. des.)  
= *palposa* (Cresson).

CALLIGASTRA (Hennig), 1937:485 (*Zeugma*). Type-locality: Peru, Pichís,  
Puerto Yessup. Distr. — Peru.

FLAVIMACULATA (Hennig), 1937:486 (*Zeugma*). Type-locality: Brazil, Pará,  
Santarém. Distr. — Brazil.

PALPOSA (Cresson), 1908:96, pl. 6, fig. 1 (*Zeugma*). Type-locality: Surinam,  
Paramaribo. Distr. — Surinam, Guyana, Peru, Bolivia.

*versicolor* Curran, 1934a:424. Type-locality: Guyana, Bartica District,  
Kartabo. Synonymy confirmed by type-examination.

SENILIS (Hennig), 1937:485 (*Zeugma*). Type-locality: Peru, Pichís, Puerto  
Yessup. Distr. — Peru.

#### Genus CLADISCOPHLEPS Enderlein

CLADISCOPHLEPS Enderlein, 1912a:107. Type-species, *ramulosa* Enderlein  
(orig. des.).

Ref. — Prado, 1965.

LOPESI Prado, 1965:408, figs. 9-14. Type-locality: Brazil, State of Rio de  
Janeiro. Distr. — Brazil. Ref. — Lopes, 1936:479, figs. 13-15.

RAMULOSA Enderlein, 1912a:108, fig. 7. Type-locality: Brazil, Santa Catarina. Distr. — Brazil. Ref. — Prado, 1965:406, figs. 1-8.

### Genus COILOMETOPIA Macquart

COILOMETOPIA Macquart, 1847:107 (sep. p. 91). Type-species, *ferruginea* Macquart (mon.) = *trimaculata* (Fabricius).

*Coelometopia*, emend.

EIMACULATA Loew, 1873:189, pl. 9, fig. 27. Type-locality: West Indies, "Cuba". Distr. — West Indies (Cuba).

COSTALIS Hendel, 1911a:256. Type-locality: "Venezuela". Distr. — Venezuela, Bolivia.

LONGICORNIS Hendel, 1911a:255. Type-locality: Peru, Vilcanota. Distr. — Peru, Bolivia.

POECILA Hennig, 1937:32. Type-locality: Peru, mouth of Pachitea River. Distr. — Peru, Bolivia.

TRICHOSA Hennig, 1937:32. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Peru, Bolivia.

TRIMACULATA (Fabricius), 1805:208 (*Scatophaga*). Type-locality: "South America". Distr. — Trinidad, Guyana, Colombia, Ecuador, Brazil, Bolivia.

*flavus* Fabricius, 1805:274 (*Dacus*). Type-locality: "South America".

*maculipennis* Macquart, 1846:339 (sep. p. 211), pl. 19, fig. 1 (*Odontomera*). Type-locality: "Colombia".

*ferruginea* Macquart, 1847:107 (sep. p. 91), pl. 5, fig. 14. Type-locality: "Brazil".

### (Genus CONICEPS Loew)

(CONICEPS Loew, 1873:178. Type-species, *niger* Loew (mon.).

(NIGER Loew, 1873:178. Type-locality: U.S.A., Texas. Distr. — U.S.A.).

### Genus EPIPLATEA Loew

EPIPLATEA Loew, 1868a:324. Type-species, *erosa* Loew (mon.). Ref. — Steyskal, 1958:306 (revision).

ARCUATA Hendel, 1911a:193; 1911b: pl. 1, figs. 15-17. Type-locality: Peru, Meshagua. Distr. — Guyana, Brazil, Peru.

EROSA Loew, 1868a:326, pl. 2, fig. 27 (vol. 12). Type-locality: West Indies, "Cuba". Distr. — West Indies (Cuba, Puerto Rico, Dominican Republic).

HONDURANA Steyskal, 1958:302, figs. 10, 13, 15-18. Type-locality: British Honduras, Manatee. Distr. — British Honduras.

ISTHMI Steyskal, 1958:308, figs. 8, 11, 14. Type-locality: Panama, Canal Zone, Cano Saddle, Close's. Distr. — Panama.

RECTA Hendel, 1911a:193; 1911b: pl. 1, fig. 19. Type-locality: Paraguay, Asunción. Distr. — Paraguay.

## Genus EUOLENA Loew

- EUOLENA** Loew, 1873:183. Type-species, *Michogaster egregius* Gerstaecker (orig. des.).
- ABDOMINALIS** Hendel, 1911a:390. Type-locality: Bolivia, Songo. Distr. — Bolivia.
- EGREGIA** (Gerstaecker), 1860:179 (*Michogaster*). Type-locality: "Colombia". Distr. — Colombia, Venezuela, Ecuador, Peru, Bolivia.
- ornatus** Schiner, 1868:255 (*Michogaster*). Type-locality: "South America".
- FLAVA** Hennig, 1938a:118. Type-locality: Peru, Ucayali River, Unini. Distr. — Peru.

## Genus HEMIXANTHA Loew

- HEMIXANTHA** Loew, 1873:190. Type-species, *spinipes* Loew (mon.). Ref. — Hennig, 1937:307 (key).
- ANNULIFEMUR** Hennig, 1937:311. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.
- BOLIVIANA** Hennig, 1937:309. Type-locality: Bolivia, Mapiri, Chimate. Distr. — Bolivia.
- BRUNNEA** Hennig, 1937:310. Type-locality: Peru, Pichis, Puerto Bermúdez. Distr. — Peru.
- FUSCIVENTRIS** Enderlein, 1912a:112. Type-locality: "Colombia". Distr. — Colombia, Brazil. Note: Both this and the following species were apparently described as discrete species, but both authors compared their species with *H. granulata* Hendel, and Hennig and Aezél treated them as synonyms.
- fusciventris** Hendel, 1936:80. Type-locality: Brazil, Pará, Taperinha.
- FLAVA** Lopes, 1936:476, figs. 5-7, pl. 5, fig. 2. Type-locality: Brazil, Goiás, Campinas. Distr. — Brazil.
- FLAVICORNIS** (Wiedemann), 1830a:514 (*Dacus*). Type-locality: "Brazil". Distr. — Brazil.
- GRACILIS** Hennig, 1937:310. Type-locality: Peru, Pinipini. Distr. — Peru.
- GRANULATA** Hendel, 1911a:258. Type-locality: Peru, Vilcanota. Distr. — Peru.
- LONGIPES** Hendel, 1911a:263; 1911b: pl. 2, fig. 49. Type-locality: "Brazil". Distr. — Brazil, Bolivia.
- subsp. ANDORUM** Hennig, 1937:313. Type-locality: Bolivia, San Antonio.
- LUTEA** Hennig, 1937:309. Type-locality: Peru, mouth of Pachitea River. Distr. — Peru.
- MONOCHROMA** Hennig, 1937:311. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Bolivia.
- ORNAMENTATA** Hennig, 1937:308. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Bolivia.
- PAUCISETIS** Hennig, 1937:314. Type-locality: Costa Rica, 8 km west of San José, Farm La Caja. Distr. — Costa Rica.

- PICTA Hennig, 1937:312. Type-locality: Bolivia, Mapiri, San Ernesto. Distr. — Bolivia.
- PULCHRIPENNIS Hendel, 1911a:262; 1911b: pl. 2, figs. 46-47. Type-locality: Brazil, Amazonas, Manaus. Distr. — Brazil.
- RECTA Hendel, 1911a:260. Type-locality: "Venezuela". Distr. — Venezuela.
- SPINIPES Loew, 1873:190, pl. 9, fig. 28. Type-locality: "Brazil". Distr. — Brazil.
- TRITAENIOLATA Hennig, 1937:313. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Bolivia.
- WAEIINERI Hennig, 1938b:10, fig. 4. Type-locality: Brazil, Amazonas, São Paulo de Olivença. Distr. — Brazil.

#### Genus MACROSTENOMYIA Hendel

- Stenomacra* Loew, 1873:180 (preocc. Stål, 1870). Type-species, *Sepsis guerini* Bigot (mon.).
- MACROSTENOMYIA Hendel, 1907:98 (nom. nov. for *Stenomacra* Loew). Type-species, *Sepsis guerini* Bigot (aut.).
- GUERINII (Bigot), 1857b:346, pl. 20, figs. 9a-c (*Sepsis*). Type-locality: West Indies, "Cuba". Distr. — West Indies (Puerto Rico, Cuba), Costa Rica.
- gerinii*, misspelling.
- guerini*, misspelling.

#### Genus MAERORICHARDIA Hennig

- MAERORICHARDIA Hennig, 1937:31. Type-species, *lugubris* Hennig (orig. des.).
- LUGUBRIS Hennig, 1937:31. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.

#### Genus MEGALOTHORACA Hendel

- MEGALOTHORACA Hendel, 1911a:182, 395. Type-species, *pterodontida* Hendel (mon.).
- Phlebacrocyma* Enderlein, 1912a:105. Type-species, *undulosum* Enderlein (orig. des.). N. SYN. (females of *Megalothoraca* species).
- FERRUGINEA (Enderlein), 1912a:106 (*Phlebacrocyma*). Type-locality: Ecuador, Santa Inez. Distr. — Ecuador N. COMB.
- FLAVA Enderlein, 1912a:104. Type-locality: Ecuador, Santa Inez. Distr. — Ecuador.
- HENDELI Enderlein, 1912a:104. Type-locality: Ecuador, Santa Inez. Distr. — Ecuador.
- PTERODONTIDA Hendel, 1911a:395; 1911b: pl. 3, figs. 74-75. Type-locality: Peru, Cagon. Distr. — Peru.
- TELEOPSIS Hennig, 1938b:9, fig. 3. Type-locality: ?, San Antonio. Distr. — ?.
- UNDULOSA (Enderlein), 1912a:105, fig. 6 (*Phlebacrocyma*). Type-locality: Ecuador, Santa Inez. Distr. — Ecuador. N. COMB.



## Genus MELANOLOMA Loew

- MELANOLOMA Loew, 1873:192. Type-species, *Trypeta cyanogaster* Wiedemann (orig. des.).  
*Melanolema*, error.  
*Melanolomina* Curran, 1934b:281. Type-species, *Odontomera varians* Schiner (orig. des.).  
AFFINE Loew, 1873:192, pl. 9, fig. 29. Type-locality: "Brazil". Distr. — Brazil.  
CANOPILOSUM Hendel, 1933:222. Type-locality: Paraguay, Santa Trinidad. Distr. — Paraguay.  
CYANOASTER (Wiedemann), 1830a:499 (*Trypeta*). Type-locality: "Brazil". Distr. — Brazil, Peru, Bolivia.  
DECREPITUM Hendel, 1911a:367. Type-locality: "Venezuela". Distr. — Venezuela, Colombia, Peru, Bolivia.  
HAEDULUS Hennig, 1938a:112. Type-locality: Brazil, Lower Amazon, Mosqueiro. Distr. — Brazil.  
LONGIPENNE Hendel, 1911a:368. Type-locality: "Venezuela". Distr. — Venezuela.  
NIGRUM Hendel, 1911a:270. Type-locality: "Bolivia". Distr. — Bolivia.  
ORDINARIUM Hennig, 1938a:113. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.  
SENEX Hendel, 1911a:268. Type-locality: "Bolivia". Distr. — Bolivia, Peru.  
VARIANS (Schiner), 1868:259 (*Odontomera*). Type-locality: "South America". Distr. — Venezuela, Brazil, Peru, Bolivia.  
VIATRIX Hendel, 1911a:269. Type-locality: Bolivia, Songo. Distr. — Bolivia.

## Genus NEOIDIOTYP A Osten-Sacken

- Idiotypa* Loew, 1873:187 (preocc. Foerster, 1856). Type-species, *appendiculata* Loew (mon.).  
NEOIDIOTYP A Osten-Sacken, 1878:187 (nom. nov. for *Idiotypa* Loew). Type-species, *Idiotypa appendiculata* Loew (aut.).  
APPENDICULATA (Loew), 1873:183, pl. 9, fig. 26 (*Idiotypa*). Type-locality: West Indies, "Cuba". Distr. — West Indies (Cuba).

## Genus OCEANICIA Enderlein

- OCEANICIA Enderlein, 1927:107. Type-species, *nasuta* Enderlein (orig. des.). Distinct from *Ozaenina* Enderlein.  
NASUTA Enderlein, 1927:107. Type-locality: Paraguay, San Bernardino; Brazil. Distr. — Brazil, Paraguay.

## Genus ODONTOMERA Macquart

- ODONTOMERA Macquart, 1843:373 (sep. p. 215). Type-species, *ferruginea* Macquart (mon.).  
*Cyrtometopa* Loew, 1873:179. Type-species, *Odontomera ferruginea* Macquart (orig. des.).

- ALBOPILOSA Hendel, 1911a:375. Type-locality: Peru, Vilcanota. Distr. — Peru, Bolivia.
- AFICALIS Hendel, 1911a:373. Type-locality: "Brazil". Distr. — Brazil.
- BASISTRIGA (Walker), 1861:328 (*Michogaster*). Type-locality "South America". Distr. — Costa Rica, South America.
- CANONIGRA Enderlein, 1912a:110. Type-locality: "Colombia". Distr. — Colombia.
- CINCTA Hennig, 1938a:115. Type-locality: Peru, Pichís, Puerto Yessup. Distr. — Peru.
- CONICEPS Hendel, 1911a:377; 1911b; pl. 1, fig. 78. Type-locality: Bolivia; Peru; Brazil, São Paulo; "South America". Distr. — Peru, Brazil, Bolivia.
- COSTALIS Hendel, 1911a:376. Type-locality: Argentina, Tucumán. Distr. — Argentina.
- FERRUGINEA Macquart, 1843:372 (sep. p. 215), pl. 29, fig. 6. Type-locality: unknown. Distr. — Southeastern U.S.A., Mexico, Costa Rica, Brazil, Bolivia, Paraguay.
- FLAVIPENNIS Enderlein, 1912a:111. Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- FLAVIPLEURA Hennig, 1938a:115. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- (LIMBATA Steyskal, 1958:304, pl. 1, figs. 3-5. Type-locality: U.S.A., Florida, Palm Beach County. Distr. — U.S.A.).
- MARGINALIS (Walker), 1861:328 (*Michogaster*). Type-locality: Brazil, "Amazon". Distr. — Brazil.
- NIGROPILOSA Hendel, 1911a:375. Type locality: "Brazil". Distr. — Brazil.
- NITENS (Schiner), 1868:258 (*Michogaster*). Type-locality: "Colombia" (stated by Hendel, 1911a:372, to be Venezuela). Distr. — Mexico, Costa Rica, Colombia, Venezuela, Bolivia.
- cinctella* Wulp, 1899:389, pl. 10, figs. 20, 20a (*Cyrtometopa*). Type-locality: Mexico, San Lorenzo near Córdoba; Tabasco, Teapa.
- subsp. BOLIVIANA Hennig, 1938a:114. Type-locality: Bolivia, Mapiri, Sarampiuni.
- RUFICAUDA Hendel, 1936:79. Type-locality: Brazil, Pará, Taperinha. Distr. — Brazil.
- STRIGATA Hennig, 1938a:116. Type-locality: Peru, Pinipini. Distr. — Peru.
- TERMINALIS (Walker), 1852:376 (*Sepsis*). Type-locality: "Brazil". Distr. — Brazil.
- VENOSA Hendel, 1911a:374. Type-locality: "Brazil". Distr. — Brazil.

#### Genus ODONTOMERELLA Hendel

- ODONTOMERELLA Hendel, 1912:10. Type-species, *oxyptera* Hendel (orig. des.).
- OXYPTERA Hendel, 1912:11. Type-locality: Brazil, Amazonas. Distr. — Brazil.

### Genus OEDEMATELLA Hendel

OEDEMATELLA Hendel, 1911a:181, 392. Type-species, *czernyi* Hendel (mon.).  
CZERNYI Hendel, 1911a:392; 1911b: pl. 3, figs. 66-68. Type-locality: "Peru".  
Distr. — Peru.

### Genus OZAENINA Enderlein

OZAENINA Enderlein, 1912a:109. Type-species, *nasuta* Enderlein (orig. des.).  
Distinct from *Oceanicia* Enderlein.  
*Longinasus* Frey, 1955:134. Type-species, *neriiformis* Frey (orig. des.).  
N. SYN.  
DIVERSA Lopes, 1936:478, figs. 8-12, pl. 5, fig. 3. Type-locality: Brazil,  
Guanabara, Rio de Janeiro, Gávea. Distr. — Brazil.  
LINEARIS Hennig, 1938a:120. Type-locality: Peru, Pinipini. Distr. — Peru.  
MODERATA Hennig, 1938a:120. Type-locality: Brazil, Pará, Santarém (written-  
in on separate). This species may be a species of *Oceanicia*.  
NASUTA Enderlein, 1912a:109, figs. 8-9. Type-locality: Brazil, Santa Ca-  
tarina. Distr. — Brazil.  
NERIFORMIS (Frey), 1955:134, fig. 5 (*Longinasus*). Type-locality: Brazil,  
Santa Catarina, Nova Teutônia. Distr. — Brazil. N. COMB.  
PERGULICEPS Hennig, 1938a:119. Type-locality: Peru, Pichis, Puerto Ber-  
múdez. Distr. — Peru.  
VEXILLIFER Hennig, 1938a:119. Type-locality: Bolivia, Mapiri, Sarampiuni.  
Distr. — Bolivia.

### Genus PANERYMA Wulp

PANERYMA Wulp, 1899:387. Type-species, *elongata* Wulp (mon.).  
ELONGATA Wulp, 1899:388, pl. 10, fig. 19. Type-locality: Mexico, Tabasco,  
Teapa. Distr. — Mexico.

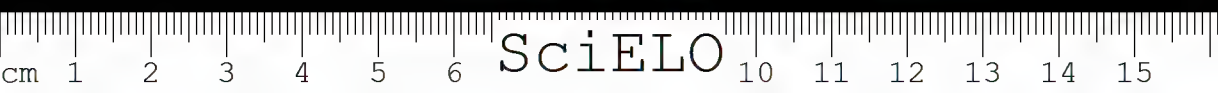
### Genus POECILOMYIA Hendel

POECILOMYIA Hendel, 1911a:183, 256. Type-species, *longicornis* Hendel (mon.).  
ANNULATA Hendel, 1914c:176. Type-locality: Trinidad, Port of Spain. Distr.  
— Trinidad.  
CYANOASTER Hennig, 1937:33. Type-locality: Peru, Urubamba River. Distr.  
— Peru.  
LONGICORNIS Hendel, 1911a:256; 1911b: pl. 2, figs. 43-45. Type-locality:  
Venezuela; Panama, Chiriqui. Distr. — Panama, Colombia, Ve-  
nezuela, Peru, Bolivia.  
var. COLUMBIANA Enderlein, 1912a:106. Type-locality: Colombia, Fusa-  
gasuga.

### Genus RICHARDIA Robineau-Desvoidy

RICHARDIA Robineau-Desvoidy, 1830:728. Type-species, *saltatoria* Robineau-  
Desvoidy (mon.) = ?*podagrica* (Fabricius). There is considera-  
ble doubt concerning the identity of *saltatoria*; it hardly seems  
likely that it can be a synonym of *podagrica*, but we maintain  
*status quo* pending examination of type.

- Merodina* Macquart, 1835:378. Type-species, *Dacus podagrica* Fabricius (mon.).
- Gnathoplasma* Enderlein, 1912a:99. Type-species, *infestans* Enderlein (orig. des.). N. SYN.
- Scelidodontia* Enderlein, 1913:553. Type-species, *hendeliana* Enderlein (orig. des.).
- Polphopsis* Enderlein, 1927:107. Type-species, *Richardia telescopica* Gerstaecker (orig. des.). N. SYN.
- Zetekomyia* Curran, 1934b:281. Type-species, *banksi* Curran, nomen nudum (orig. des.) = *telescopica* Gerstaecker. N. SYN.
- ANALIS Hendel, 1911a:245; 1911b: pl. 2, fig. 39. Type-locality: Bolivia, Suapi. Distr. — Bolivia.
- ANNULATA (Macquart), 1835:434 (*Herina*). Type-locality: "Colombia". Distr. — Colombia, Panama.
- eurycephala* Gerstaecker, 1860:165, pl. 2, figs. 1, 1a. Type-locality: "South America".
- CALCARATA Hendel, 1912:8. Type-locality: Brazil, Pará, Santarém. Distr. — Panama, Colombia, Brazil.
- CONCINNA Wulp, 1899:387, pl. 10, fig. 18. Type-locality: Mexico, Santiago Iscuintla; Guerrero, Acaguizotla. Distr. — Mexico.
- EBURNEOSIGNATA Hennig, 1937:25. Type-locality: Peru, Meshagua, Urubamba River. Distr. — (typical subspecies) Trinidad, Venezuela, Guyana, Peru, Bolivia.
- subsp. CENTRALIAMERICANA Hennig, 1937:26. Type-locality: Costa Rica, 8 km west of San José, Farm La Caja. Distr. — Costa Rica, Guatemala, El Salvador, Nicaragua, Panama, Colombia.
- ELEGANS Wulp, 1899:386, pl. 10, fig. 17. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico.
- FLAVIPES Schiner, 1868:260. Type-locality: "South America" (Venezuela). Distr. — Guyana, Venezuela, Peru.
- HENDELIANA (Enderlein), 1913:553, fig. (*Scelidodontia*). Type-locality: Colombia, Hacienda Pehlke. Distr. — Colombia.
- INFESTANS (Enderlein), 1912a:99, figs. 1-2 (*Gnathoplasma*). Type-locality: Colombia, Hacienda Pehlke. Distr. — Colombia, Panama. N. COMB.
- LATERINA Rondani, 1848:85. Type-locality: "Brazil". Distr. — Brazil. Unrecognized.
- LATIBRACHIUM Enderlein, 1912a:100, fig. 4. Type-locality: Costa Rica; Mexico, Chiapas. Distr. — Mexico, Costa Rica.
- LICHTWARDTI Hendel, 1911a: 247; 1911b: pl. 2, fig. 36. Type-locality: Ecuador, Balzapamba. Distr. — Ecuador.
- NUMERIFERA Speiser, 1911:246. Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil.
- PECTINATA Hendel, 1912:7. Type-locality: Brazil, Pará, R. Amazonas, west end of the Paraná de Boiaçu ("Boiaçu"). Distr. — Brazil.
- PODAGRICA (Fabricius), 1805:272 (*Dacus*). Type-locality: "South America". Distr. — Mexico (Chiapas), south to Colombia, Trinidad, Surinam, Guyana, Brazil, Peru, Bolivia.





- PROXIMA Schiner, 1868:260. Type-locality: "South America" (Venezuela).  
Distr. — Trinidad, Venezuela, Guyana, Peru.
- spectabilis* Schiner, 1868:261. Type-locality: "South America".
- SALTATORIA Robineau-Desvoidy, 1830:728. Type-locality: Cayenne (= French Guiana). Unrecognized; according to Hendel, 1911a:210, a questionable synonym of *podagrica*.
- SCHNUSEI Hendel, 1911a:252; 1911b: pl. 2, fig. 37. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.
- STYLOPS Hennig, 1938b:8, figs. 1-2. Type-locality: Colombia, Muzo. Distr. — Colombia.
- TEEVANI Curran, 1934a:422. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Panama, Trinidad, Guyana, Brazil, Peru.
- var. ANNULIPES Curran, 1934a:423. Type-locality: Guyana, Bartica district, Kartabo.
- TELESCOPICA Gerstaecker, 1860:167, pl. 2, figs. 2, 2a. Type-locality: Brazil, at Amazon River. Distr. — Costa Rica, Nicaragua, Panama, Brazil.
- huberi* Cresson, 1923:259 (*Plagiocephalus*). Type-locality: Nicaragua, Eden.
- banksi* Curran, 1934b:284, figs. 42, 105 (without descriptive statement). Type-locality: not cited; label on type shows it is from Panama, Canal Zone, Barro Colorado Island. N. SYN.
- TEPHIRITINA Enderlein, 1912a:102, fig. 5. Type-locality: Brazil, Santa Catarina. Distr. — Brazil.
- TUBERCULATA Hendel, 1911a:239; 1911b: pl. 2, fig. 33. Type-locality: Bolivia, Suapi; Peru, Callanga. Distr. — Peru, Bolivia.
- UNDULATA Hennig, 1937:27. Type-locality: Colombia, Chiriguana district. Lake Sapatoza region. Distr. — Colombia.
- UNIFASCIATA Rondani, 1848:82. Type-locality: "Brazil". Distr. — Brazil, Peru.
- UNIMACULATA Hendel, 1911a:244; 1911b: pl. 2, fig. 34. Type-locality: Venezuela; Paraguay; Brazil. Distr. — Venezuela, Brazil, Bolivia, Paraguay.
- VRIDIVENTRIS Wulp. 1899:386. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Tabasco), Costa Rica, Surinam, Guyana, Colombia, Brazil, Peru, Bolivia.

#### Genus RICHARDIODES Hendel

- RICHARDIODES Hendel, 1912:8. Type-species, *rectinervis* Hendel (orig. des.). Also spelled *Richardioides* in text, but I am following Hendel and Aczél in using the form in *-odes*.
- RECTINERVIS Hendel, 1912:9. Type-locality: Brazil, Pará, Santarém. Distr. — Brazil, Peru.
- TRIMACULATA Hennig, 1937:316. Type-locality: Peru, Urubamba River. Distr. — Peru.

#### Genus SEPSISOMA Johnson

- SEPSISOMA Johnson, 1900:327. Type-species, *flavescens* Johnson (mon.).
- Parasepsisoma* Hendel, 1936:80. Type-species, *Michogaster geniculatus*

Schiner. N. SYN.; *S. flavescens* shows all of the characters ascribed by Hendel to *Parasepsisoma*.

ANALE (Schiner), 1868:257 (*Michogaster*). Type-locality: "South America" (Venezuela). Distr. — Venezuela, Brazil, Bolivia.

*piceum* Hendel, 1911a:385. Type-locality: Brazil, São Paulo.

ERYTHROCEPHALUM (Schiner), 1868:257 (*Michogaster*). Type-locality: "South America" (Venezuela). Distr. — Venezuela.

(FLAVESCENS Johnson, 1900:327. Type-locality: U.S.A., New Jersey, Westville. Distr. — U.S.A.).

GENICULATUM (Schiner), 1868:257 (*Michogaster*) Type-locality: "South America" (Venezuela). Distr. — Venezuela.

GOLDSCHMIDT Lindner, 1930:61. Type-locality: Bolivia, 60 km north of San José de Chiquitos. Distr. — Bolivia.

(MINIMUM Steyskal, 1961a:85, figs. 2, 2a. Type-locality: U.S.A., Kansas, Manhattan. Distr. — U.S.A.).

NIGRONITENS Hendel, 1911a:383. Type-locality: Brazil, São Paulo. Distr. — Brazil.

OPACUM Hendel, 1911a:382. Type-locality: "Brazil". Distr. — Brazil.

REDUCTUM Lindner, 1930:60. Type-locality: Argentina, Lapango; San José. Distr. — Northern Argentina.

(SABROSKYI Steyskal, 1961a:83, figs. 1, 1a. Type-locality: U.S.A., Kansas, Medora. Distr. — U.S.A.).

SEPSIOIDES (Schiner), 1868:258 (*Michogaster*). Type-locality: "South America" (Venezuela). Distr. — Venezuela.

UMBRIPENNE Hendel, 1911a:386. Type-locality: "Brazil". Distr. — Brazil.

#### Genus SETELLIA Robineau-Desvoidy

SETELLIA Robineau-Desvoidy, 1830:732. Type-species, *afra* Robineau-Desvoidy (mon.). Inasmuch as the type-species is unrecognized, the status of this genus must remain in doubt until the species can be clarified.

*Michogaster* Macquart, 1835:483. Type-species, *Cephalia femoralis* Wiedemann (Schiner, 1868:255).

*Mischogaster*, emend.

*Omalocephala* Macquart, 1843:388 (sep. p. 231) (preocc. Spinola, 1839). Type-species, *fusca* Macquart (mon.).

*Conopsida* Macquart, 1851:267 (sep. p. 294). Type-species, *Cephalia femoralis* Wiedemann (mon.).

*Conopsidea*, emend.

*Tylemyia* Giglio-Tos, 1893:14. Type-species, *Omalocephala fusca* Macquart (orig. des.).

AFRA Robineau-Desvoidy, 1830:733. Type-locality: "Brazil". Unrecognized.

APEX Hendel, 1911a:200; 1911b: pl. 1, figs. 20-23. Type-locality: "Costa Rica". Distr. — Costa Rica.

ATRA (Walker), 1852:394, pl. 7, fig. 7 (*Calobata*). Type-locality: not cited. Distr. — Brazil.

- COSTALIS (Schiner), 1868:256 (*Michogaster*). Type-locality: "South America" (Venezuela). Distr. — Venezuela.
- DICHAETA Hennig, 1937:23. Type-locality: Guyana, Essequibo River, Moraballi Creek. Distr. — (typical subspecies) Guyana.
- subsp. PERUANA Hennig, 1937:23. Type-locality: Peru, Pichis, Puerto Bermúdez. Distr. — Peru.
- DIFFUSA (Gerstaecker), 1860:176 (*Michogaster*). Type-locality: "Brazil". Distr. — Brazil (Santa Catarina).
- DISTINCTA (Walker), 1852:376 (*Sepsis*). Type-locality: "Brazil". Distr. — Brazil.
- FASCIPENNIS (Wiedemann), 1830a:469 (*Cephalia*). Type-locality: "Brazil". Distr. — Brazil (Espírito Santo).
- FEMORALIS (Wiedemann), 1830a:469 (*Cephalia*). Type-locality: "Brazil". Distr. — Brazil.
- FUSCA (Macquart), 1843:389 (sep. p. 232), pl. 31, fig. 12 (*Omaloccephala*). Type-locality: "Guyane". Distr. — Mexico ("Tuxpango"), "Guyane".
- MICANS Hendel, 1911a:199. Type-locality: "Central America". Distr. — "Central America".
- NIGRA (Schiner), 1868:256 (*Michogaster*). Type-locality: "South America" (Venezuela). Distr. — Venezuela, Ecuador.
- NIGRIPES Lopes, 1936:476, figs. 1-4, pl. 5, fig. 1. Type-locality: Brazil, Goiás, Campinas. Distr. — Brazil.
- NITIDIPENNIS (Wulp), 1899:385, pl. 10, figs. 16, 16a (*Michogaster*). Type-locality: Panama, Volcán de Chiriquí. Distr. — Panama.
- PERNIX (Gerstaecker), 1860:177 (*Michogaster*). Type-locality: "Brazil". Distr. — Brazil.
- bilimbata* Bigot, 1886:389. Type-locality: Brazil, Pará.
- POECILOPTERA Hendel, 1911a:202. Type-locality: "Brazil". Distr. — Brazil.
- PUNCTIGERA Enderlein, 1913:554. Type-locality: Ecuador, Archidona. Distr. — Ecuador, Peru.
- UNISPINOSA Bigot, 1886:388. Type-locality: "Brazil". Distr. — Guyana Brazil (Amazonas).
- WIEDEMANNI Hendel, 1911a:197. Type-locality: "Brazil". Distr. — Brazil.

#### Genus SETELLIDA Hendel

- SETELLIDA Hendel, 1911a:183, 393. Type-species, *caerulescens* Hendel (mon.).
- CAERULESCENS Hendel, 1911a:303; 1911b: pl. 3, figs. 76-77. Type-locality: Panama, Chiriquí. Distr. — Panama.

#### Genus SPHENEVOLENA Hendel

- SPHENEVOLENA Hendel, 1911a:183, 393. Type-species, *cuneipennis* Hendel (mon.).
- CUNEIPENNIS Hendel, 1911a:393; 1911b: pl. 3, figs. 69-70. Type-locality: "Bolivia". Distr. — Bolivia.
- ICHNEUMONEA Enderlein, 1927:106. Type-locality: "Peru". Distr. — Peru.

## UNPLACED GENERA AND SPECIES

MARGINATA Wiedemann, 1830a:470 (*Cephalia*). Type-locality: "Brazil".  
? *Setellia*.

### Genus CHLOROPHORA Robineau-Desvoidy

CHLOROPHORA Robineau-Desvoidy, 1830:733. Type-species, *liturata* Robineau-Desvoidy (mon.).

LITURATA Robineau-Desvoidy, 1830:733. Type-locality: "Brazil". Unrecognized; considered by Hendel (1911a:372) as possible senior synonym of *Odontomera nitens* (Schiner).

TRIVITTATA Macquart, 1843:362 (sep. p. 205), pl. 27, fig. 9 (*Richardia*). Type-locality: "Guyane". Hendel (1911a:189) has treated it as a questionable synonym of *Automola caloptera* Bigot, but discrepancies in the description and figure require solution by type-examination.

### Genus SYNTACES Loew

SYNTACES Loew, 1873:182. Type-species, *Setellia apicalis* Macquart (orig. des.).

APICALIS (Macquart), 1843:406 (sep. p. 249), pl. 33, fig. 4 (*Setellia*). Type-locality: Brazil, Goiás. Unrecognized; considered by Hendel (1911a:372) as possible synonym of *Odontomera nitens* (Schiner).

DIVISA Walker, 1852:381 (*Trypeta*). Type-locality: "Brazil". According to Foote (1964:321), the type is in the British Museum under the genus *Coilometopia*.

LAETA Walker, 1852:388 (*Trypeta*). Type-locality: "Brazil". This has been placed by Hendel (1912:6) as certainly a species of *Richardia*, but not placeable. Foote (1964:321) reports that the type could not be located.

### NOMEN NUDUM

*pectoralis* — in description of *Odontomera nigropilosa* Hendel q.v.

### LITERATURE CITED

(including families Otitidae and Platystomatidae also)

ACZÉL, M.

1950. Catálogo de la subfamilia americana "Richardiinae" (Dipt. Acalypt. "Otitidae"). *Acta Zool. Lilloana* 9:5-47.

1951. Catálogo de la subfamilia americana "Pterocallinae" (Dipt. Acalypt., Otitidae). *Acta Zool. Lilloana* 11:397-433.

ALDRICH, J. M.

1932. New Diptera, or two-winged flies, from America, Asia, and Java, with additional notes. *Proc. U. S. Nat. Mus* 81(art. 9):1-28, pl. 1.



BECKER, T.

1919. Diptères. Brachycères. *Miss. du Serv. Géogr. de l'Armée mesure d'un Arc Mérid. Equat. en Amer. du Sud* 10(2):163-215, pls. 14-17.

BIGOT, J. M. F.

- 1857a. Diptères nouveaux provenant du Chili. *Ann. Soc. Ent. France* 5:277-308, pls. 6-7.  
1857b. Dipteros, in R. de la Sagra: *Historia fisica, politica y natural de la Isla de Cuba* 7:328-349, pl. 20(v. 8); also in French edition, pp. 783-829.  
1877. (Note). *Ann. Soc. Ent. France* (5) 7 (Bull.): xxvi-xxvii (sep. Bull., p. 38).  
1885. (Note). *Ann. Soc. Ent. France* (6) 5 (Bull.): clxv-clxvi.  
1886. Diptères nouveaux ou peu connus. 29e partie, etc. *Ann. Soc. Ent. France* (6) 6:237-392.

BLANCHARD, EMILE

1852. Orden IX. Dipteros, in C. Gay, ed.: *Historia fisica y politica de Chile, Zool.* 7:321-471, pls. 1-5.

BLANCHARD, EVERARD E.

- 1938a. Descripciones y anotaciones de dipteros argentinos. *An. Soc. Cient. Argent.* 126(5):345-386, figs.  
1938b. Seis nuevas especies de Otitidos argentinos. *Rev. Argentina Ent.* 1:85-96.  
1951. Un extraordinario Pterocállido de las Yungas (Dipt., Acalyptrata). *Rev. Soc. Ent. Argentina* 15:32-34.  
1967. Especies nuevas de acalípteros (Diptera) argentinos. *Rev. Investig. Agropecuarias, INTA, Buenos Aires*, (5)4(1):1-7, 4 figs.

BRÈTHES, J.

1904. Insectos de Tucumán. *An. Mus. Nac. Buenos Aires* (3)4:329-347.  
1914. Une nouvelle espèce d'Ulidiinae (Dipt.) de Tucuman. *Bull. Soc. Ent. France* 1914:87-88.  
1922. Himenópteros y Dipteros de varias procedencias. *An. Soc. Cient. Argentina* 93:119-146.

CAPOOR, V. N.

1954. New species of Ortalidae (Diptera) from Brasil. *Rev. Brasil. Ent.* 2:205-213.

COLE, F. R.

1923. XXV. Expedition of the California Academy of Sciences to the Gulf of California in 1921. Diptera from the islands and adjacent shores of the Gulf of California. II. General Report. *Proc. Calif. Acad. Sci.* (4)12:457-481.

COQUILLETT, D. W.

1900. Notes and descriptions of Ortalidae. *Jour. N. Y. Ent. Soc.* 8:21-25.  
1901. A new genus of Ortalidae. *Ent. News* 12:15.  
1904. New Diptera from Central America. *Proc. Ent. Soc. Wash.* 6:90-98.  
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 35:499-647.

CRESSON, E. T., JR.

1906. Some North American Diptera from the South West. Paper I. *Trans. Amer. Ent. Soc.* 32:279-288, pl. 6.  
1908. Two new species belonging to the Dipterous families Ortalidae and Trypetidae from Dutch Guiana, with notes on others of these groups. *Ent. News* 19:95-99, pl. 6.  
1923. A new species of *Achias*-like fly from Nicaragua, apparently belonging to the little-known genus *Plagiocephalus* (Diptera: Ortalidae). *Ent. News* 34:257-260.  
1924. Studies in the dipterous family Ortalidae, with descriptions of new species, mostly from North America. *Trans. Amer. Ent. Soc.* 50:225-241.

CURRAN, C. H.

1928. Insects of Porto Rico and the Virgin Islands. Diptera or two-winged flies. N. Y. Acad. Sci., *Sci. Survey Porto Rico and the Virgin Is.* 11(1):1-118.  
1931. First supplement to the 'Diptera of Porto Rico and the Virgin Islands'. *Amer. Mus. Novitates* 456:1-23.  
1934a. The Diptera of Kartabo, Bartica District, British Guiana. *Bull. Amer. Mus. Nat. Hist.* 66:287-532.  
1934b. *The families and genera of North American Diptera*, 512 pp., 2 pls. New York.  
1934c. The Templeton Crocker expedition of the California Academy of Sciences, 1932. No. 13, Diptera. *Proc. Calif. Acad. Sci.* (4) 21:147-172.  
1935. New American Diptera. *Amer. Mus. Novitates* 812:1-24.

ENDERLEIN, G.

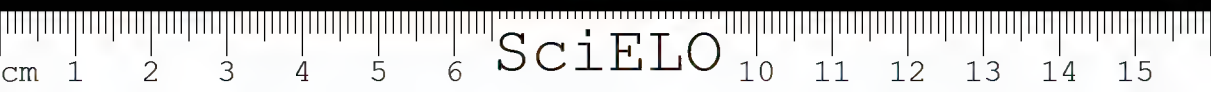
- 1912a. Die Richardiiden des Stettiner Museums. *Sitzber. Ges. Naturf. Freunde Berlin* 1912:99-113.  
1912b. Zwei neue Ortaliden. *Stettin. Ent. Ztg.* 73:60-64.  
1913. Dipterologische Studien. VI. Neue Beiträge zur Kenntnis der Richardiiden. *Zool. Anzeiger* 42:553-555.  
1921. Zur Kenntnis der Pterocallinen. *Zool. Anzeiger* 52:211-219.  
1924. Beiträge zur Kenntnis der Platystomini. *Mitteil. Zool. Mus. Berlin* 11(1):99-163.  
1927. Dipterologische Studien. XIX. *Stettin. Ent. Ztg.* 88:102-109.  
1937. Dipterologica. IV. *Sitzber. Ges. Naturf. Freunde Berlin* 1936: 431-443.

FABRICIUS, J. C.

1794. *Entomologia systematica emendata et aucta* 4:472 pp. Hafniae (= Copenhagen).  
1798. *Supplementum entomologiae systematicae*, 572 pp. Hafniae (= Copenhagen).  
1805. *Systema anthiatorum secundum ordines, genera, species*, 373+30 pp. Brunsvigae (= Brunswick).

FALLÉN, C. F.

1810. *Specim. entomolog. novam Diptera disponendi methodum exhibens*, 26 pp., 1 pl. Lund.  
1817. *Scenopinii et Conopsariae Sveciae*, 14 pp. Lundae (= Lund).  
1820. *Ortalides Sveciae*, 34 pp. Lundae (= Lund).



FOOTE, R. II.

1960. The Tephritidae and Otitidae of the Bahama Islands (Diptera). *Jour. N. Y. Ent. Soc.* 68:83-99.  
1964. Notes on the Walker types of New World Tephritidae (Diptera). *Jour. Kansas Ent. Soc.* 37:316-326.

FREY, R.

1926. Eine neue mittelamerikanische Dipterengattung mit gestielten Augen. *Notulae Ent.* 6:44-48.  
1955. Studien über ostasiatischen Dipteren. V. Psilidae, Megameriidae. *Notulae Ent.* 35:122-137.

GERSTAECKER, A.

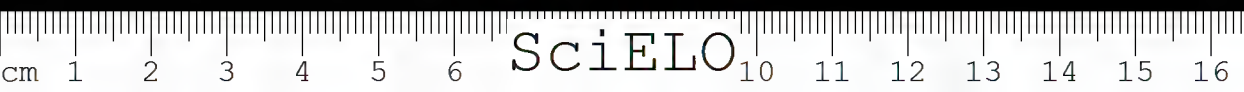
1860. Beschreibung einiger ausgezeichneten neuen Dipteren aus der Familie Muscariac. *Stettin. Ent. Ztg.* 21:163-202, pl. 2.

GIGLIO-TOS, E.

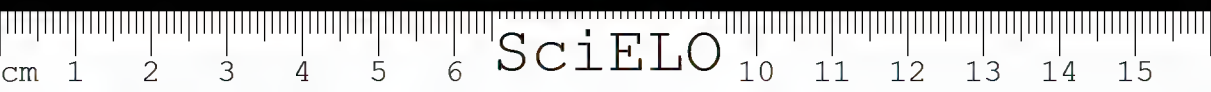
1893. Diagnosi di nuovi generi e di nuove specie di Ditteri. IX. *Boll. Mus. Zool. Anat. Comp. R. Univ. Torino* 8(158):1-14.  
1895. Ditteri del Messico, Parte IV. *Mem. R. Accad. Sci. Torino* (2) 45:1-73, 1 pl.

HENDEL, F.

1907. Nomina nova für mehrere Gattungen der acalyptraten Musciden. *Wien. Ent. Ztg.* 26:98.  
1909a. Uebersicht der bisher bekannten Arten der Pterocallinen (Dipt.). *Deutsch. Ent. Zts.* 1909 (Beiheft): 1-84.  
1909b. Diptera, Fam. Muscaridae, Subfam. Pterocallinae, in P. Wytsman: *Genera Insectorum* 96:1-50, pls. 1-4.  
1909c. Namensänderung (Dipt.). *Deutsch. Ent. Zts.* 1909:414.  
1909d. Ueber die Gattung *Euxesta* Loew (Dipt.). *Ann. Mus. Nat. Hung.* 7:151-172.  
1909e. Beitrag zur Kenntnis der Ulidiinen (Dipt.). *Wien. Ent. Ztg.* 28:247-270.  
1910. Diptera, Fam. Muscaridae, Subfam. Ulidiinae, in P. Wytsman: *Genera Insectorum* 106:1-76, pls. 1-4.  
1911a. Die Arten der Dipteren-Subfamilie Richardiinae. *Deutsch. Ent. Zts.* 1911:181-212, 239-270, 367-396. Appeared in 3 issues, 11 March, 4 May, and 26 June, resp. Since this publication contains specific descriptions and all data necessary to establish new taxa and since it is referred to in the following publication (1911b), it is regarded as prior thereunto.  
1911b. Diptera, Fam. Muscaridae, Subfam. Richardiinae, in P. Wytsman: *Genera Insectorum* 113:1-56, pls. 1-3.  
1911c. Ueber von Professor J. M. Aldrich erhaltene und einige andere amerikanische Dipteren. *Wien. Ent. Ztg.* 30:19-46.  
1912. Neue Muscidae acalyptratae. *Wien. Ent. Ztg.* 31:1-20.  
1913. Neue amerikanische Dipteren. I. Beitrag. *Deutsch. Ent. Zts.* 1913:617-636.  
1914a. Die Arten der Platystominien. *Ahandl. K. K. Zool.-Bot. Ges. Wien* 8(1):1-(410), pls. 1-4. For the reasons adduced under 1911a, this publication is considered prior to the following one.  
1914b. Diptera, Fam. Muscaridae, Subfam. Platystominiinae, in P. Wytsman, *Genera Insectorum* 157:1-179, pls. 1-15.



- 1914c. Neue amerikanische Dipteren. 2. Beitrag. *Deutsch. Ent. Zts.* 1914:151-176.
1933. Von Dr. Zürcher in den Jahren 1913-1918 in Paraguay gesammelte acalyptrate Dipteren. *Rev. de Ent.* 3:213-224.
1936. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny. *Ann. Naturhist. Mus. Wien* 47:61-106.
- HENNIG, W.
1937. Beiträge zur Systematik der Richardiiden (Dipt.). *Rev. de Ent.* 7:21-34 (March), 306-312 (July), 484-486 (October).
- 1938a. Do., cont. *Rev. de Ent.* 8:111-122.
- 1938b. Neue Beiträge zur Systematik der Richardiiden und Tyliden. *Arb. Morphol. Taxon. Ent. Berlin-Dahlem* 5:7-15.
1941. *Seioptera*, eine für die taxonomische Methodik interessante Dipterengattung (Diptera: Otitidae). *Arb. Morphol. Taxon. Ent. Berlin-Dahlem* 8:73-76.
- HERING, (E.) M.
1938. Neue Bohrfliegen aus Brasilien (Dipt.). *Rev. de Ent.* 8:187-196.
1941. Pterocallidae brasilienses (Dipt.). *Mitteil. Münch. Ent. Ges.* 31:197-201.
- JOHNSON, C. W.
1900. Some notes and descriptions of seven new species and one new genus of Diptera. *Ent. News* 11:323-328.
1919. A revised list of the Diptera of Jamaica. *Bull. Amer. Mus. Nat. Hist.* 61:421-449.
1921. New Diptera from Texas and Mexico. *Psyche* 28:56-59.
- KERTÉSZ, K.
1913. A new species of the dipterous genus *Chondrometopum* Hend. *Ann. Mus. Nat. Hung.* 11:382.
- KIRBY, W., & W. SPENCE
1817. *An introduction to entomology, or elements of the natural history of insects.* [Ed. 1], vol. 2:529 pp., pls. 1-2.
- LINDNER, E.
1928. Die Ausbeute der deutschen Chaco-Expedition. Diptera. III. Ulidiidae. *Konowia* 7:93-98.
1930. Die Ausbeute der deutschen Chaco-Expedition 1925/26. Diptera. XVIII. Richardiidae. *Rev. de Ent.* 3:213-224.
- LOEW, H.
1866. Diptera Americae septentrionalis indigena. Centuria sexta. *Berlin. Ent. Zts.* (1865) 9:127-186.
- 1868a. Die amerikanische Ulidiina. *Berlin. Ent. Zts.* 11:283-326, pl. 2 (vol. 12).
- 1868b. Die europäischen Ortalidae. *Zts. Ges. Naturwiss.* 32(7):1-11.
1873. Monographs of the Diptera of North America. Part III. *Smiths. Misc. Coll.* 11(3 = publ. 256):1-351, i-viii, pls. 8-11.
1876. Beschreibungen neuer amerikanischer Dipteren. *Zts. Ges. Naturwiss.* 48:317-340.
- LOPES, H. DE SOUZA
1936. Sobre tres especies novas de Richardiidae do Brasil (Dipt.). *Rev. de Ent.* 6:475-480, pl. 5.





LYNCH ARRIBÁLAGA, E.

1881. Neue Dipteren aus dem südlichen Gebiet der Pampa. *Stettin. Ent. Ztg.* 42:189-192.

MCALPINE, J. F.

1951. A review of the North American species of *Herina* Robineau-Desvoidy (= *Tephronota* Loew) (Diptera: Otitidae). *Canad. Ent.* 83:308-314.

MACQUART, J.

1835. *Histoire naturelle des insectes. Diptères* 2:703 pp. pls. 13-24. (In N. E. Roret, ed.: *Collection des Suites à Buffon*).
1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1842:162-460, pls. 1-36 (also published separately with different pagination, vol. 2, pt. 3).
1846. Diptères exotiques nouveaux ou peu connus. [1er] Supplément. *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1844:133-364, pls. 1-20 (also published separately with different pagination).
1847. Diptères exotiques nouveaux ou peu connus. 2e Supplément. *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1846:21-120, pls. 1-6 (also published separately with different pagination).
1848. Diptères exotiques nouveaux ou peu connus. Suite du 2e Supplément (i.e., 3e Supplément). *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1847 (2):161-237, pls. 1-7 (also published separately with different pagination).
1851. Diptères exotiques nouveaux ou peu connus. Suite du 4e Supplément. *Mém. Soc. Nat. Sci. Agric. Arts Lille* 1850:134-294, pls. 15-28 (also published separately with different pagination).
1855. Diptères exotiques nouveaux ou peu connus. 5e Supplément. *Mém. Soc. Imp. Sci. Agric. Arts Lille* 1854:25-156, pls. 1-7 (also published separately with different pagination).

MALLOCH, J. R.

1933. Acalyptrata, in *British Museum (Natural History): Diptera of Patagonia and South Chile* 6:1-499, pls. 1-4.

NAMBA, R.

1956. A revision of the flies of the genus *Rivellia* (Otitidae, Diptera) of America north of Mexico. *Proc. U. S. Nat. Mus.* 106:21-84.

OSTEN SACKEN, C. R.

1878. Catalogue of the described Diptera of North America. [Ed. 2]. *Smiths. Misc. Coll.* 16 (2= publ. 270):276.

PAZOS, J. H.

1914. Catalogo de los Dipteros de la Isla de Cuba. *Acad. Cienc. Habana, Rev. Cient.* 1:990-1003.

PRADO, A. PIRES DO

1965. Contribuição ao conhecimento da família Richardiidae. I. Gênero *Cladiscophleps* Enderlein 1912 (Diptera, Acalyptratae). *Rev. Brasil. Biol.* 25:405-410, figs. 1-14.

ROBINEAU-DESVOIDY, J. B.

1830. Essai sur les Myodaires. (Paris) Inst. de France, (Cl. des) Sci. Math. Phys., Acad. Roy. Sci., *Mém. présentées par divers savans* (2)2:1-813.

RONDANI, C.

1848. Esame di varie specie d'insetti ditteri brasiliani. Truqui, *Studi Ent.* 1:63-112, pl. 3bis.
1850. Osservazioni sopra alcune specie di Esapodi Ditteri del Museo Torinese. *Nuovi Ann. Sci. Nat.* (Bologna) (3)2:165-197, pl. 4.
1851. Dipterorum species aliquae in America Aequatoriali collectae a Cajetano Osculati, observati et distinctae novis breviter descriptis. *Nuovi Ann. Sci. Nat.* (Bologna) (3)2:357-373 (for Nov., Dec., 1850).
1856. *Dipterologiae Italicae prodromus* 1:228 pp. Parmae (= Parma).
1863. *Diptera exotica revisa et annotata*, 99 pp., 1 pl. Modena. (Also published in 1864 under the title "Dipterorum species et genera aliqua exotica", *Arch. Zool. Anat. Fis.* [Modena] 3[1]:1-99, pl. 5).
1869. Ortalidinae Italicae collectae, distinctae et in ordinem dispositae. *Dipt. Ital. Prodromus* 7 (3). *Boll. Soc. Ent. Ital.* 1:5-37. (Also published separately, 37 pp.).

SAY, T.

1829. Descriptions of North American dipterous insects. *Jour. Acad. Nat. Sci. Philad.* 6:149-178, cont.
1830. Do., cont. *Jour. Acad. Nat. Sci. Philad.* 6:183-188.

SCHINER, I. R.

1868. Diptera, in B. von Wüllersdorff-Urbair: *Reise der österreichischen Fregatte Novara. Zool.* 2(1B):1-388 pp., pls. 1-4. Wien.

SÉGUY, E.

1941. Diptères recueillis par M. L. Chopard d'Alger à la Côte d'Ivoire. *Ann. Soc. Ent. France* 109:109-130.

SHEWELL, G. E.

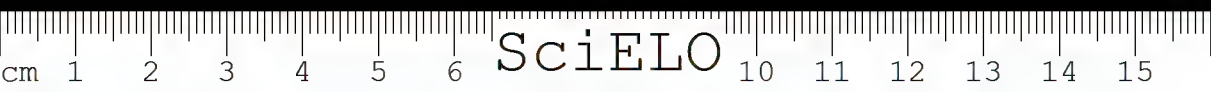
1962. A new Canadian species of *Stenopterina* Macq. with notes on the species allied to *brevipes* (Fab.) (Diptera: Otitidae). *Canad. Ent.* 94:194-200.

SPEISER, P.

1911. Zur Kenntnis aussereuropäischer Diptera. *Jahrb. Nassau. Ver. Naturk. Wiesbaden* 64:237-261.
1929. Drei Ortaliden aus Südbrasilien (Dipt.). *Wien. Ent. Ztg.* 46:27-31.

STEYSKAL, G. C.

1947. The genus *Diacrita* Gerstaecker (Diptera, Otitidae). *Bull. Brooklyn Ent. Soc.* 41:149-154.
1956. The genus *Seioptera* Kirby (Diptera, Otitidae). *Ann. Ent. Soc. Amer.* 49:30-32.
1958. Notes on the Richardiidae, with a review of the species known to occur in the United States (Diptera, Acalyptratae). *Ann. Ent. Soc. Amer.* 51:302-310.



- 1961a. Two new species of *Sepsisoma* from Kansas (Diptera: Richardiidae). *Jour. Kansas Ent. Soc.* 34:83-85.
- 1961b. The genera of Platystomatidae and Otitidae known to occur in America north of Mexico (Diptera, Acalyptratae). *Ann. Ent. Soc. Amer.* 54:401-410.
- 1963a. The genus *Notogramma* Loew (Diptera Acalyptrata, Otitidae). *Proc. Ent. Soc. Wash.* 65:195-200.
- 1963b. The genus *Plagiocephalus* Wiedemann (Diptera, Otitidae). *Studia Ent.* 6:511-514.
- 1963c. A note on *Scioptera importans* (Diptera: Otitidae). *Ann. Ent. Soc. Amer.* 56:878.
1964. The synonymy of *Willineria orfilai* Blanchard (Diptera, Otitidae). *Studia Ent.* 7:490.
- 1966a. The genus *Eumecosomyia* Hendel (Diptera, Otitidae). *Proc. Ent. Soc. Wash.* 68:100-102.
- 1966b. A key to the species of the genus *Xanthacrona* Wulp (Diptera, Otitidae). *Proc. Ent. Soc. Wash.* 68:269.
- 1966c. Otitidae from the Galápagos Islands (Diptera, Acalyptratae). *Proc. Calif. Acad. Sci.* (4)34(11):483-498.

THOMSON, C. G.

1869. 6. Diptera. Species novas descripsit, in K. Vet. Akad., *Kongliga svenska fregatten Eugenies resa omkring jorden*, pt. 2: Zool. (1): 443-614, pl. 9. Stockholm, "1868".

WALKER, F.

1849. *List of the specimens of dipterous insects in the collection of the British Museum* 4:689-1172. London.
1852. In W. W. Saunders, ed.: *Insecta Saundersiana*, 1(4):253-414. London. (The whole work, published in parts at various dates, contains 8 pls. of which the only ones showing Acalyptratae are nos. 7 and 8).
1857. Characters of undescribed Diptera in the collection of W. W. Saunders. *Trans. Ent. Soc. London* (2)4:119-158, 190-235, cont.
1860. Do., cont. *Trans. Ent. Soc. London* (2)5:144-168, cont.
1861. Do., concl. *Trans. Ent. Soc. London* (2)5:297-334.

WESTWOOD, J. O.

1840. *An introduction to the modern classification of insects. Synopsis of the genera of British Insects*, 158 pp. London. (Diptera on pp. 125-158. The entire work consists of 2 volumes and the separately paged "Synopsis" is usually bound at the end of volume 2).

WIEDEMANN, C. R. W.

- 1830a. *Aussereuropäische zweiflügelige Insekten* 2:xii + 684 pp., pls. 7-10b. Hamm.
- 1830b. *Achtas dipterorum genus a Fabricio conditum; illustratum novisque speciebus auctum et conventui physicorum germanorum oblatum*, 1-16 pp., pls. 1-2. Kiliae Holsatorum (= Kiel).

WILLISTON, S. W.

1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London* 1896:253-446, pls. 8-14.

WULP, F. M. VAN DER

1882. Remarks on certain American Diptera in the Leyden Museum and description of nine new species. *Notes from the Leyden Mus.* 4:73-92.

1883. Amerikaansche Diptera. *Tijds. v. Ent.* 26:1-60, pls. 1-2.

1898. Group Ortalinae, in F.D. Godman & O. Salvin, eds.: *Biologia Centrali-Americana, Ins., Diptera* 2:377-384, pl. 10, cont.

1899. Do., *Ibidem* 2:385-400, pls. 10-11.

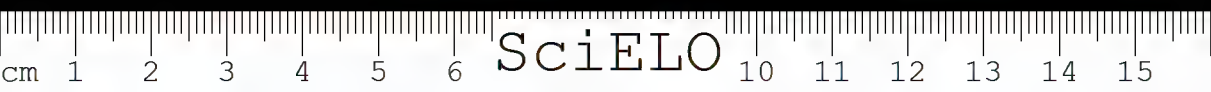
## INDEX

|   |       |
|---|-------|
| abdominalis Hendel, 1911, <i>Euolena</i> .....                            | 53.4  |
| Acompha Hendel, 1911 .....  | 53.1  |
| affine Loew, 1873, <i>Melanoloma</i> .....                                | 53.6  |
| afra Robineau-Desvoidy, 1830, <i>Setellia</i> .....                       | 53.11 |
| albopilosa Hendel, 1911, <i>Odontomera</i> .....                          | 53.7  |
| anale (Schiner), 1868 ( <i>Michogaster</i> ), <i>Sepsisoma</i> .....      | 53.11 |
| analís Hendel, 1911, <i>Richardia</i> .....                               | 53.9  |
| annulifemur Hennig, 1937, <i>Hemixantha</i> .....                         | 53.4  |
| annulata Hendel, 1914, <i>Poecilomyia</i> .....                           | 53.8  |
| annulata (Macquart), 1835 ( <i>Herina</i> ), <i>Richardia</i> .....       | 53.9  |
| annulifemur Hennig, 1937, <i>Hemixantha</i> .....                         | 53.4  |
| annulipes Curran, 1934, <i>Richardia</i> .....                            | 53.10 |
| <i>Antineuromyia</i> Hendel, 1914 .....                                   | 53.1  |
| apex Hendel, 1911, <i>Setellia</i> .....                                  | 53.11 |
| apicalis Hendel, 1911, <i>Odontomera</i> .....                            | 53.7  |
| apicalis (Macquart), 1843 ( <i>Setellia</i> ), <i>Syntaces</i> .....      | 53.13 |
| appendiculata Hennig, 1937, <i>Antineuromyia</i> .....                    | 53.1  |
| appendiculata (Loew), 1873 ( <i>Idiotypa</i> ), <i>Neoidiotypa</i> .....  | 53.6  |
| arcuata Hendel, 1911, <i>Epiplatea</i> .....                              | 53.3  |
| atomaria (Wiedemann), 1830 ( <i>Ortalis</i> ), <i>Automola</i> .....      | 53.2  |
| atra (Walker), 1852 ( <i>Calobata</i> ), <i>Setellia</i> .....            | 53.11 |
| <i>Automola</i> Loew, 1873 .....  | 53.1  |
| banksi (Curran), 1934 ( <i>Zetekomyia</i> ), <i>Richardia</i> .....       | 53.10 |
| basistriga (Walker), 1861 ( <i>Michogaster</i> ), <i>Odontomera</i> ..... | 53.7  |
| <i>Batrachophthalmum</i> Hendel, 1911 .....                               | 53.2  |
| <i>Beebeomyia</i> Curran, 1934 .....                                      | 53.2  |
| bilimbata Bigot, 1886, <i>Setellia</i> .....                              | 53.12 |
| bimaculata Loew, 1873, <i>Coilometopia</i> .....                          | 53.3  |
| boliviana Hennig, 1937, <i>Hemixantha</i> .....                           | 53.4  |
| boliviana Hennig, 1938, <i>Odontomera</i> .....                           | 53.7  |
| brunnea Hennig, 1937, <i>Hemixantha</i> .....                             | 53.4  |
| caerulescens Hendel, 1911, <i>Setellida</i> .....                         | 53.12 |
| calcarata Hendel, 1912, <i>Richardia</i> .....                            | 53.9  |
| calligastria (Hennig), 1937 ( <i>Zeugma</i> ), <i>Beebeomyia</i> .....    | 53.2  |
| caloptera (Bigot), 1886 ( <i>Wulpia</i> ), <i>Automola</i> .....          | 53.2  |



|  |       |
|--|-------|
| <i>canonigra</i> Enderlein, 1912, <i>Odontomera</i> .....                              | 53.7  |
| <i>canopilosum</i> Hendel, 1933, <i>Melanoloma</i> .....                               | 53.6  |
| <i>centraliamericana</i> Hennig, 1937, <i>Richardia</i> .....                          | 53.9  |
| <i>Chlorophora</i> Robineau-Desvoidy, 1830 .....                                       | 53.13 |
| <i>cincta</i> Hennig, 1938, <i>Odontomera</i> .....                                    | 53.7  |
| <i>cinctella</i> (Wulp), 1899 ( <i>Cyrtometopa</i> ), <i>Odontomera</i> .....          | 53.7  |
| <i>Cladiscophleps</i> Enderlein, 1912 .....  | 53.2  |
| <i>clavata</i> Hendel, 1914, <i>Antineuromyia</i> .....                                | 53.1  |
| <i>Coclometopia</i> , emendation for <i>Coilometopia</i> .....                         | 53.3  |
| <i>Coilometopia</i> Macquart, 1847 .....   | 53.3  |
| <i>columbiana</i> Enderlein, 1912, <i>Poecilomyia</i> .....                            | 53.8  |
| <i>concinna</i> Wulp, 1899, <i>Richardia</i> .....                                     | 53.9  |
| <i>coniceps</i> Hendel, 1911, <i>Odontomera</i> .....                                  | 53.7  |
| <i>Coniceps</i> Loew, 1873 .....   | 53.3  |
| <i>Conopsida</i> Macquart, 1851 .....  | 53.11 |
| <i>Conopsidea</i> , emendation for <i>Conopsida</i> .....                              | 53.11 |
| <i>costalis</i> Hendel, 1911, <i>Coilometopia</i> .....                                | 53.3  |
| <i>costalis</i> Hendel, 1911, <i>Odontomera</i> .....                                  | 53.7  |
| <i>costalis</i> (Schiner), 1868 ( <i>Michogaster</i> ), <i>Setellia</i> .....          | 53.12 |
| <i>cuneipennis</i> Hendel, 1911, <i>Sphenueolena</i> .....                             | 53.12 |
| <i>cyanogaster</i> Hennig, 1937, <i>Poecilomyia</i> .....                              | 53.8  |
| <i>cyanogaster</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Melanoloma</i> .....       | 53.6  |
| <i>Cyrtometopa</i> Loew, 1873 .....  | 53.6  |
| <i>czernyi</i> Hendel, 1911, <i>Oedematella</i> .....                                  | 53.8  |
| <i>decrepitum</i> Hendel, 1911, <i>Melanoloma</i> .....                                | 53.6  |
| <i>dichaeta</i> Hennig, 1937, <i>Setellia</i> .....                                    | 53.12 |
| <i>diffusa</i> (Gerstaecker), 1860 ( <i>Michogaster</i> ), <i>Setellia</i> .....       | 53.12 |
| <i>distincta</i> (Walker), 1852 ( <i>Sepsis</i> ), <i>Setellia</i> .....               | 53.12 |
| <i>diversa</i> Lopes, 1936, <i>Ozaenina</i> .....                                      | 53.8  |
| <i>divisa</i> Walker, 1852, <i>Trypeta</i> (unplaced) .....                            | 53.13 |
| <i>dohaniani</i> (Johnson), 1921 ( <i>Epiplatea</i> ), <i>Automola</i> .....           | 53.2  |
| <i>dohanniani</i> , error for <i>dohaniani</i> .....                                   | 53.2  |
| <i>eburneosignata</i> Hennig, 1937, <i>Richardia</i> .....                             | 53.9  |
| <i>egregia</i> (Gerstaecker), 1860 ( <i>Michogaster</i> ), <i>Euolena</i> .....        | 53.4  |
| <i>elegans</i> Wulp, 1899, <i>Richardia</i> .....                                      | 53.9  |
| <i>elongata</i> Wulp, 1899, <i>Paneryma</i> .....                                      | 53.8  |
| <i>Epiplatea</i> Loew, 1868 .....  | 53.3  |
| <i>erosa</i> Loew, 1868, <i>Epiplatea</i> .....  | 53.3  |
| <i>erythrocephalum</i> (Schiner), 1868 ( <i>Michogaster</i> ), <i>Sepsisoma</i> .....  | 53.11 |
| <i>Euolena</i> Loew, 1873 .....  | 53.4  |
| <i>eurycephala</i> Gerstaecker, 1860, <i>Richardia</i> .....                           | 53.9  |
| <i>fasciiventris</i> Enderlein, 1912, <i>Hemixantha</i> .....                          | 53.4  |
| <i>fascipennis</i> (Wiedemann), 1830 ( <i>Cephalia</i> ), <i>Setellia</i> .....        | 53.12 |
| <i>fasciventris</i> Hendel, 1936, <i>Hemixantha</i> .....                              | 53.4  |
| <i>femoralis</i> (Wiedemann), 1830 ( <i>Cephalia</i> ), <i>Setellia</i> .....          | 53.12 |
| <i>ferruginea</i> (Enderlein), 1912 ( <i>Phlebacrocyma</i> ), <i>Megalothoraca</i> ... | 53.5  |
| <i>ferruginea</i> Macquart, 1847, <i>Coilometopia</i> .....                            | 53.3  |
| <i>ferruginea</i> Macquart, 1843, <i>Odontomera</i> .....                              | 53.7  |
| <i>flava</i> Enderlein, 1912, <i>Megalothoraca</i> .....                               | 53.5  |
| <i>flava</i> Hennig, 1938, <i>Euolena</i> .....  | 53.4  |
| <i>flava</i> Lopes, 1936, <i>Hemixantha</i> .....                                      | 53.4  |
| <i>flavescens</i> Johnson, 1900, <i>Sepsisoma</i> .....                                | 53.11 |

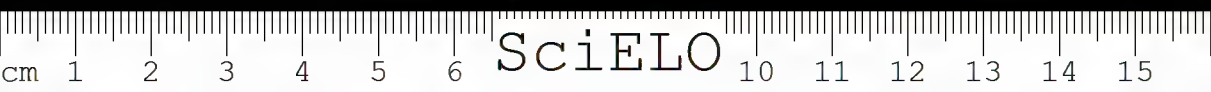
|   |       |
|---|-------|
| <i>flavicornis</i> (Wiedemann), 1830 ( <i>Dacus</i> ), <i>Hemixantha</i> .....        | 53.4  |
| <i>flavimaculata</i> (Hennig), 1937 ( <i>Zeugma</i> ), <i>Beebeomyia</i> .....        | 53.2  |
| <i>flavipennis</i> Enderlein, 1912, <i>Odontomera</i> .....                           | 53.7  |
| <i>flavipes</i> Schiner, 1868, <i>Richardia</i> .....                                 | 53.9  |
| <i>flavipleura</i> Hennig, 1938, <i>Odontomera</i> .....                              | 53.7  |
| <i>flavus</i> (Fabricius), 1805 ( <i>Dacus</i> ), <i>Coilometopia</i> .....           | 53.3  |
| <i>fusca</i> (Macquart), 1843 ( <i>Omalocephala</i> ), <i>Setellia</i> .....          | 53.12 |
| <i>geniculatum</i> (Schiner), 1868 ( <i>Michogaster</i> ), <i>Sepsisoma</i> .....     | 53.11 |
| <i>gerinii</i> , error for <i>guerinii</i> .....                                      | 53.5  |
| <i>Gnathoplasma</i> Enderlein, 1912 .....   | 53.9  |
| <i>goldschmidti</i> Lindner, 1930, <i>Sepsisoma</i> .....                             | 53.11 |
| <i>gracilis</i> Hennig, 1937, <i>Hemixantha</i> .....                                 | 53.4  |
| <i>granulata</i> Hendel, 1911a, <i>Hemixantha</i> .....                               | 53.4  |
| <i>guerinii</i> , emendation or error for <i>guerinii</i> .....                       | 53.5  |
| <i>guerinii</i> (Bigot), 1857 ( <i>Sepsis</i> ), <i>Macrostenomyia</i> .....          | 53.5  |
| <i>haedulus</i> Hennig, 1938, <i>Melanoma</i> .....                                   | 53.6  |
| <i>Hemixantha</i> Loew, 1873 .....  | 53.4  |
| <i>hendeli</i> Enderlein, 1912, <i>Megalothoraca</i> .....                            | 53.5  |
| <i>hendeliana</i> (Enderlein), 1913 ( <i>Scelidodontia</i> ), <i>Richardia</i> .....  | 53.9  |
| <i>hondurana</i> Steyskal, 1958, <i>Epiplatea</i> .....                               | 53.3  |
| <i>huberi</i> (Cresson), 1923 ( <i>Plagiocephalus</i> ), <i>Richardia</i> .....       | 53.10 |
| <i>ichneumonea</i> Enderlein, 1927, <i>Spheneuolena</i> .....                         | 53.12 |
| <i>Idiotypa</i> Loew, 1873 .....  | 53.6  |
| <i>infestans</i> (Enderlein), 1912 ( <i>Gnathoplasma</i> ), <i>Richardia</i> .....    | 53.9  |
| <i>isthmi</i> Steyskal, 1958, <i>Epiplatea</i> .....                                  | 53.3  |
| <i>laeta</i> Walker, 1853, <i>Trypeta</i> (unplaced) .....                            | 53.13 |
| <i>laterina</i> Rondani, 1848, <i>Richardia</i> .....                                 | 53.9  |
| <i>latibrachium</i> Enderlein, 1912, <i>Richardia</i> .....                           | 53.9  |
| <i>leopardina</i> Blanchard, 1938, <i>Automola</i> .....                              | 53.2  |
| <i>lichtwardti</i> Hendel, 1911, <i>Richardia</i> .....                               | 53.9  |
| <i>limbata</i> Steyskal, 1958, <i>Odontomera</i> .....                                | 53.7  |
| <i>linearis</i> Hennig, 1938, <i>Ozaenina</i> .....                                   | 53.8  |
| <i>liturata</i> Robineau-Desvoidy, 1830, <i>Chlorophora</i> .....                     | 53.13 |
| <i>longicornis</i> Hendel, 1911, <i>Coilometopia</i> .....                            | 53.3  |
| <i>longicornis</i> Hendel, 1911, <i>Poecilomyia</i> .....                             | 53.8  |
| <i>Longinasus</i> Frey, 1955 .....  | 53.8  |
| <i>longipenne</i> Hendel, 1911, <i>Melanoloma</i> .....                               | 53.6  |
| <i>longipes</i> Hendel, 1911, <i>Hemixantha</i> .....                                 | 53.4  |
| <i>lopesi</i> Prado, 1965, <i>Cladiscophlens</i> .....                                | 53.2  |
| <i>lugubris</i> Hennig, 1937, <i>Maerorichardia</i> .....                             | 53.5  |
| <i>lutea</i> Hennig, 1937, <i>Hemixantha</i> .....                                    | 53.4  |
| <i>Macrostenomyia</i> Hendel, 1907 .....  | 53.5  |
| <i>maculipennis</i> (Macquart), 1846 ( <i>Odontomera</i> ), <i>Coilometopia</i> ..... | 53.3  |
| <i>Maerorichardia</i> Hennig, 1937 .....  | 53.5  |
| <i>marginalis</i> (Walker), 1861 ( <i>Michogaster</i> ), <i>Odontomera</i> .....      | 53.7  |
| <i>marginata</i> (Wiedemann), 1830 ( <i>Cephalia</i> ), unplaced .....                | 53.13 |
| <i>Megalothoraca</i> Hendel, 1911 .....   | 53.5  |
| <i>Melanolema</i> , error .....   | 53.6  |
| <i>Melanoloma</i> Loew, 1873 .....  | 53.6  |
| <i>Melanolomina</i> Curran, 1934 .....  | 53.6  |



|  |       |
|--|-------|
| <i>Merodina</i> Macquart, 1835 .....   | 53.9  |
| <i>mexicanum</i> (Giglio-Tos), 1893 ( <i>Platystoma</i> ), <i>Automola</i> ..... | 53.2  |
| <i>micans</i> Hendel, 1911, <i>Setellia</i> .....                                | 53.12 |
| <i>Michogaster</i> Macquart, 1835 .....  | 53.11 |
| <i>minimum</i> Steyskal, 1958, <i>Sepsisoma</i> .....                            | 53.11 |
| <i>Mischogaster</i> , emendation of <i>Michogaster</i> .....                     | 53.11 |
| <i>moderata</i> Hennig, 1938, <i>Ozaenina</i> .....                              | 53.8  |
| <i>monochroma</i> Hennig, 1937, <i>Hemixantha</i> .....                          | 53.4  |
| <i>nasuta</i> Enderlein, 1927, <i>Oceanicia</i> .....                            | 53.6  |
| <i>nasuta</i> Enderlein, 1912, <i>Ozaenina</i> .....                             | 52.8  |
| <i>Neoidiotypa</i> Osten Sacken, 1878 .....                                      | 53.6  |
| <i>neriiformis</i> (Frey), 1955 ( <i>Longinasus</i> ), <i>Ozaenina</i> .....     | 53.8  |
| <i>niger</i> Loew, 1873, <i>Coniceps</i> .....                                   | 53.3  |
| <i>nigra</i> (Schiner), 1868 ( <i>Michogaster</i> ), <i>Setellia</i> .....       | 53.12 |
| <i>nigripes</i> Lopes, 1936, <i>Setellia</i> .....                               | 53.12 |
| <i>nigronitens</i> Hendel, 1911, <i>Sepsisoma</i> .....                          | 53.11 |
| <i>nigropilosa</i> Hendel, 1911, <i>Odontomera</i> .....                         | 53.7  |
| <i>nigrum</i> Hendel, 1911, <i>Melanoloma</i> .....                              | 53.6  |
| <i>nitens</i> (Schiner), 1868 ( <i>Michogaster</i> ), <i>Odontomera</i> .....    | 53.7  |
| <i>nitidipennis</i> (Wulp), 1899 ( <i>Michogaster</i> ), <i>Setellia</i> .....   | 53.12 |
| <i>numerifera</i> Speiser, 1911, <i>Richardia</i> .....                          | 53.9  |
| <i>Oceanicia</i> Enderlein, 1927 .....   | 53.6  |
| <i>Odontomera</i> Macquart, 1843 .....   | 53.6  |
| <i>Odontomerella</i> Hendel, 1912 .....  | 53.7  |
| <i>Oedematella</i> Hendel, 1911 .....  | 52.8  |
| <i>Omalocephala</i> Macquart, 1843 .....   | 53.11 |
| <i>opacum</i> Hendel, 1911, <i>Sepsisoma</i> .....                               | 53.11 |
| <i>ordinarium</i> Hennig, 1938, <i>Melanoloma</i> .....                          | 53.6  |
| <i>ornamentata</i> Hennig, 1937, <i>Hemixantha</i> .....                         | 53.4  |
| <i>ornatus</i> (Schiner), 1868 ( <i>Michogaster</i> ), <i>Euolena</i> .....      | 53.4  |
| <i>oxyptera</i> Hendel, 1912, <i>Odontomerella</i> .....                         | 53.7  |
| <i>Ozaenina</i> Enderlein, 1912 .....  | 53.8  |
| <i>palposa</i> (Cresson), 1908 ( <i>Zeugma</i> ), <i>Beebeomyia</i> .....        | 53.2  |
| <i>Paneryma</i> Wulp, 1899 .....   | 53.8  |
| <i>Parasepsisoma</i> Hendel, 1936 .....  | 53.10 |
| <i>paucisetis</i> Hennig, 1937, <i>Hemixantha</i> .....                          | 53.4  |
| <i>pectinata</i> Hendel, 1912, <i>Richardia</i> .....                            | 53.9  |
| <i>pectoralis</i> , nomen nudum .....  | 53.13 |
| <i>perguliceps</i> Hennig, 1938, <i>Ozaenina</i> .....                           | 53.8  |
| <i>pernix</i> (Gerstaecker), 1860 ( <i>Michogaster</i> ), <i>Setellia</i> .....  | 53.12 |
| <i>peruana</i> Hennig, 1937, <i>Setellia</i> .....                               | 53.12 |
| <i>Phlebacrocyma</i> Enderlein, 1912 .....                                       | 53.5  |
| <i>piceum</i> Hendel, 1911, <i>Sepsisoma</i> .....                               | 53.11 |
| <i>picta</i> Hennig, 1937, <i>Hemixantha</i> .....                               | 53.5  |
| <i>podagrica</i> (Fabricius), 1805 ( <i>Dacus</i> ), <i>Richardia</i> .....      | 53.9  |
| <i>poecila</i> Hennig, 1937, <i>Coilometopia</i> .....                           | 53.3  |
| <i>Poecilomyia</i> Hendel, 1911 .....  | 53.8  |

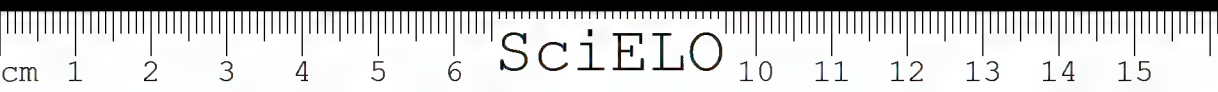


|   |       |
|---|-------|
| <i>pocilloptera</i> Hendel, 1911, <i>Setellia</i> .....                               | 53.12 |
| <i>Polphopsis</i> Enderlein, 1927 .....   | 53.9  |
| <i>proxima</i> Schiner, 1868, <i>Richardia</i> .....                                  | 53.10 |
| <i>pterodontida</i> Hendel, 1911, <i>Megalothoraca</i> .....                          | 53.5  |
| <i>pulchripennis</i> Hendel, 1911, <i>Hemixantha</i> .....                            | 53.5  |
| <i>punctifrons</i> Hendel, 1911, <i>Acompha</i> .....                                 | 53.1  |
| <i>punctigera</i> Enderlein, 1913, <i>Setellia</i> .....                              | 53.12 |
| <br>  |       |
| <i>ramulosa</i> Enderlein, 1912, <i>Cladiscophleps</i> .....                          | 53.3  |
| <i>recta</i> Hendel, 1911, <i>Epiplatea</i> .....                                     | 53.3  |
| <i>recta</i> Hendel, 1911, <i>Hemixantha</i> .....                                    | 53.5  |
| <i>rectinervis</i> Hendel, 1912, <i>Richardiodes</i> .....                            | 53.10 |
| <i>reductum</i> Lindner, 1930, <i>Sepsisoma</i> .....                                 | 53.11 |
| <i>Richardia</i> Robineau-Desvoidy, 1830 .....  | 53.8  |
| <i>Richardiodes</i> Hendel, 1912 .....  | 53.10 |
| <i>rufa</i> Cresson, 1906, <i>Automola</i> .....                                      | 53.2  |
| <i>ruficauda</i> Hendel, 1936, <i>Odontomera</i> .....                                | 53.7  |
| <i>rufiventre</i> Hendel, 1911, <i>Batrachophthalmum</i> .....                        | 53.2  |
| <br>  |       |
| <i>sabroskyi</i> Steyskal, 1958, <i>Sepsisoma</i> .....                               | 53.11 |
| <i>saltatoria</i> Robineau-Desvoidy, 1830, <i>Richardia</i> .....                     | 53.10 |
| <i>Scelidodontia</i> Enderlein, 1913 .....  | 53.9  |
| <i>schnusei</i> Hendel, 1911, <i>Richardia</i> .....                                  | 53.10 |
| <i>senex</i> Hendel, 1911, <i>Melanoloma</i> .....                                    | 53.6  |
| <i>senilis</i> (Hennig), 1937 ( <i>Zeugma</i> ), <i>Beebeomyia</i> .....              | 53.2  |
| <i>sepsioides</i> (Schiner), 1868 ( <i>Michogaster</i> ), <i>Sepsisoma</i> .....      | 53.11 |
| <i>Sepsisoma</i> Johnson, 1900 .....  | 53.10 |
| <i>Setellia</i> Robineau-Desvoidy, 1830 .....   | 53.11 |
| <i>Setellida</i> Hendel, 1911 .....   | 53.12 |
| <i>spectabilis</i> Schiner, 1868, <i>Richardia</i> .....                              | 53.10 |
| <i>Spheneuolena</i> Hendel, 1911 .....  | 53.12 |
| <i>spinipes</i> Loew, 1873, <i>Hemixantha</i> .....                                   | 53.5  |
| <i>Stenomacra</i> Loew, 1873 .....  | 53.5  |
| <i>strigata</i> Hennig, 1938, <i>Odontomera</i> .....                                 | 53.7  |
| <i>stylops</i> Hennig, 1938, <i>Richardia</i> .....                                   | 53.10 |
| <i>Syntaces</i> Loew, 1873 .....  | 53.13 |
| <br>  |       |
| <i>teevani</i> Curran, 1934, <i>Richardia</i> .....                                   | 53.10 |
| <i>teleopsis</i> Hennig, 1938, <i>Megalothoraca</i> .....                             | 53.5  |
| <i>telescopica</i> Gerstaecker, 1860, <i>Richardia</i> .....                          | 53.10 |
| <i>tephritina</i> Enderlein, 1912, <i>Richardia</i> .....                             | 53.10 |
| <i>terminalis</i> (Walker), 1852 ( <i>Sepsis</i> ), <i>Odontomera</i> .....           | 53.7  |
| <i>trichosa</i> Hennig, 1937, <i>Coilometopia</i> .....                               | 53.3  |
| <i>trifasciata</i> (Wiedemann), 1830 ( <i>Ortalis</i> ), <i>Automola</i> .....        | 53.2  |
| <i>trimaculata</i> (Fabricius), 1805 ( <i>Scatophaga</i> ), <i>Coilometopia</i> ..... | 53.3  |
| <i>trimaculata</i> Hennig, 1937, <i>Richardiodes</i> .....                            | 53.10 |
| <i>tritaeniolata</i> Hennig, 1937, <i>Hemixantha</i> .....                            | 53.5  |
| <i>trivittata</i> Macquart, 1843, <i>Richardia</i> .....                              | 53.13 |
| <i>tuberculata</i> Hendel, 1911, <i>Richardia</i> .....                               | 53.10 |
| <i>Tylemyia</i> Giglio-Tos, 1893 .....  | 53.11 |





|  |       |
|--|-------|
| umbripenne Hendel, 1911, Sepsisoma .....                       | 53.11 |
| undulata Hennig, 1937, Richardia .....                         | 53.10 |
| undulosa (Enderlein), 1912 (Phlebacrocyma), Megalothoraca .... | 53.5  |
| unifasciata Rondani, 1848, Richardia .....                     | 53.10 |
| unimaculata Hendel, 1911, Richardia .....                      | 53.10 |
| unispinosa Bigot, 1886, Setellia .....                         | 53.12 |
|  |       |
| varians (Schiner), 1868 (Odontomera), Melanoloma .....         | 53.6  |
| venosa Hendel, 1911, Odontomera .....                          | 53.7  |
| versicolor Curran, 1934, Beebeomyia .....                      | 53.2  |
| vexillifer Hennig, 1938, Ozaenina .....                        | 53.8  |
| viatrix Hendel, 1911, Melanoloma .....                         | 53.6  |
| viridiventris Wulp, 1899, Richardia .....                      | 53.10 |
|  |       |
| wacchneri Hennig, 1938, Hemixantha .....                       | 53.5  |
| wiedemanni Hendel, 1911, Setellia .....                        | 53.12 |
| Wulpia Bigot, 1886 .....                                       | 53.2  |
|  |       |
| Zetekomyia Curran, 1934 .....                                  | 53.9  |
| Zeugma Cresson, 1908 .....                                     | 53.2  |



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

54

## FAMILY OTITIDAE

(ORTALIDAE; INCLUDING PTEROCALLIDAE, ULIDIIDAE)

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D.C.*

The old Ortalidae, based upon a preoccupied name, included several groups now recognized as distinct families (Steyskal, 1961b). The Pterocallidae, often recognized as a family or at least as a subfamily, are here included with the Otitinae because their characters indicate that they are no more than apomorphic members of that group.

The Otitidae are well represented in the southern parts of the Americas. The subfamily Ulidiinae is comprised there of virtually endemic groups centering about the large genera *Acrosticta* and *Euresta*.

The biology of very few of the species is known. It is likely that most species are saprophagous, but a few may be injurious to living plant tissue.

No comprehensive work on the groups as a whole has appeared. Hendel (1909a, 1909b) described most of the "Pterocallinae" and Aczél (1951) has catalogued the group. Hendel (1909e, 1910) treated the Ulidiinae. The Otitinae (sensu stricto, minus Pterocallinae) have not been listed since Loew (1873).

## Subfamily OTITINAE

## Genus ACIUROIDES Hendel

- ACIUROIDES Hendel, 1914c:172. Type-species, *insecta* Hendel (orig. des.).  
 FASCIATA Hering, 1941:199, fig. 2. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil.  
 INSECTA Hendel, 1914c:172, fig. 14. Type-locality: Paraguay, "Hohenau". Distr. — Brazil (Santa Catarina), Paraguay.  
 FLAUMANNI Hering, 1941:199, fig. 1. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil.

54.1

### Genus ACROSTICTELLA Hendel

ACROSTICTELLA Hendel, 1914a:9, 142; 1914b:16, 81. Type-species, *parallela* Hendel (orig. des.). New placement based upon examination of male postabdomen; originally described in Platystomatidae.

PARALLELA Hendel, 1914a:142; 1914b: pl. 4, figs. 74-75. Type-locality: Paraguay, Asunción. Distr. — Brazil (Santa Catarina: Nova Teutônia), Paraguay, Argentina (Misiones: Iguazu Falls).

### Genus APTEROCERINA Hendel

APTEROCERINA Hendel, 1914c:170. Type-species, *argentea* Hendel (orig. des.).

AMOENA (Enderlein), 1921:215 (*Paragorgopsis*). Type-locality: Peru, Cuzco, Callanga, Pinipini valley. Distr. — Peru.

ARGENTEA Hendel, 1914c:170. Type-locality: Bolivia, Mapiri, Sarampiuni and San Antonio. Distr. — Bolivia.

EXCELLENS (Enderlein), 1921:216 (*Paragorgopsis*). Type-locality: Ecuador, Baños. Distr. — Ecuador.

MASCHIPPENNIS (Enderlein), 1921:217 (*Paragorgopsis*). Type-locality: "Bolivia". Distr. — Bolivia.

RECTA Hendel, 1914c:171. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.

### Genus BOTHROMETOPIA Hendel

BOTHROMETOPIA Hendel, 1909a:3, 66; 1909b:6, 39. Type-species, *gamma* Hendel (Hendel, 1909b:39) = *determinata* (Walker).

DETERMINATA (Walker), 1857:227 (*Herina*). Type-locality: "Amazon". Distr. — Brazil, Peru, Bolivia.

*gamma* Hendel, 1909a:66; 1909b: pl. 4, figs. 70-73. Type-locality: Peru, Urubamba River. N. SYN. (Female).

### Genus CEROXYS Macquart

CEROXYS Macquart, 1835:437. Type-species, *Musca urticae* Linnaeus (Westwood, 1840:149).

*Anacampta* Loew, 1868b:7. Type-species, *Musca urticae* Linnaeus (Loew, 1873:58).

LATIUSCULUS (Loew), 1873:130, pl. 8, fig. 19 (*Anacampta*). Type-locality: U.S.A., California. Distr. — U.S.A., Mexico (DF., Baja California); also immigrant in Samoa and Hawaii.

### Genus CHONDROMETOPUM Hendel

CHONDROMETOPUM Hendel, 1909a:2; 1909b:5, 9. Type-species, *arcuatum* Hendel (mon.).

ARCUATUM Hendel, 1909a:9; 1909b: pl. 1, figs. 6-8. Type-locality: Peru, Pichis, Puerto Bermúdez. Distr. — Guyana, Peru.

- BIFENESTRATUM Kertész, 1913:382. Type-locality: Colombia, Aracataca. Distr. — Colombia.  
 LEVE Hendel, 1914c:161. Type-locality: Bolivia, Mapiri, San Carlos. Distr. — Bolivia.

#### Genus COSCINUM Hendel

- COSCINUM Hendel, 1909a:3, 68; 1909b:6, 41. Type-species, *clavipes* Hendel (mon.).  
 CLAVIPES Hendel, 1909a:68; 1909b: pl. 4, figs. 75-77. Type-locality: Peru, Urubamba and Ucayali Rivers. Distr. — Peru.

#### Genus CYMATOZUS Enderlein

- CYMATOZUS Enderlein, 1912b:60. Type-species, *polymorphomyiodes* Enderlein (orig. des.).  
 BESTIFER (Hendel), 1909a:7; 1909b: pl. 1, fig. 12 (*Megalaemyia*). Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.  
 FENESTELLATUS (Hendel), 1909a:8; 1909b: pl. 1, fig. 5 (*Megalaemyia*). Type-locality: Mexico, Veracruz, Orizaba. Distr. — Mexico.  
 MARGINATUS (Hendel), 1909a:72 (*Megalaemyia*). Type-locality: Peru, Cuzco, Callanga. Distr. — Peru.  
 POLYMORPHOMYIODES Enderlein, 1912b:61, fig. 1. Type-locality: Brazil, Santa Catarina. Distr. — Brazil.

#### Genus CYRTOMOSTOMA Hendel

- CYRTOMOSTOMA Hendel, 1909a:3, 64; 1909b:6, 37. Type-species, *gigas* Hendel (mon.).  
 GIGAS Hendel, 1909a:64; 1909b: pl. 4, figs. 67-69. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.

#### Genus DASYMETOPA Loew

- DASYMETOPA Loew, 1868a:285. Type-species, *lutulenta* Loew (mon.).  
 FENESTRATA Hendel, 1909a:79; 1910: pl. 1, fig. 96. Type-locality: Peru, Vilcanota. Distr. — Peru.  
 FUMIPENNIS Hendel, 1909a:22. Type-locality: Peru, Pichis. Distr. — Peru.  
 FUSCICOSTA Hendel, 1911c:29. Type-locality: "South America". Distr. — South America (precise locality unknown).  
 LUTEIPENNIS Hendel, 1909a:78; 1910: pl. 1, fig. 95. Type-locality: Peru, Vilcanota. Distr. — Peru.  
 LUTULENTA Loew, 1868a:285, pl. 2, fig. 1. Type-locality: "Surinam". Distr. — Guyana, Surinam, Peru.  
 NIGROPUNCTATA Hendel 1909a:24. Type-locality: Bolivia, Mapiri; Peru. Distr. — Peru, Bolivia.  
 OCHRACEA Hendel, 1909a:21; 1909b: pl. 2, fig. 35, 36. Type-locality: Bolivia, Mapiri; Peru, Meshagua. Distr. — Peru, Bolivia.  
 QUINQUEPUNCTATA Hendel, 1911c:28, fig. 8. Type-locality: "Bolivia". Distr. — Bolivia.



SEPTEMPUNCTATA Hendel, 1909a:22. Type-locality: Peru, Meshagua; Bolivia.  
Distr. — Peru, Bolivia.

SORDIDA Hendel, 1909a:23. Type-locality: Bolivia, Mapiri. Distr. — Guyana, Bolivia.

STIGMA Hendel, 1909a:25; 1909b: pl. 2, figs. 9-11. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.

#### Genus DIACRITA Gerstaecker

DIACRITA Gerstaecker, 1860:195. Type-species, *costalis* Gerstaecker (mon.).

*Carlottaemyia* Bigot, 1877:xxvi (38). Type-species, *moerens* Bigot (mon.)  
= *costalis* Gerstaecker.

Ref. — Steyskal, 1947.

COSTALIS Gerstaecker, 1860:197, pl. 2, fig. 10. Type-locality: Mexico, Oaxaca. Distr. — U.S.A., Mexico.

*moerens* Bigot, 1877:xxvii (38) (*Carlottaemyia*). Type-locality: Mexico".

#### Genus DYSCRASIS Aldrich

DYSCRASIS Aldrich, 1932:7. Type-species, *hendeli* Aldrich (orig. des.).

HENDELI Aldrich, 1932:8, pl. 1, fig. 1. Type-locality: U.S.A., Texas, Dallas.  
Distr. — U.S.A., Mexico (Tamaulipas, Morelos).

SCUTELLARIS (Wiedemann), 1830a: 484 (*Trypeta*). Type-locality: "Mexico".  
Distr. — Mexico (D.F., Hidalgo, Veracruz). N. COMB.

#### Genus ELAPATA Hendel

ELAPATA Hendel, 1909a:2, 64; 1909b:6, 33. Type-species, *remipes* Hendel (mon.).

REMIPES Hendel, 1909a:64; 1909b: pl. 4, figs. 64-66. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.

#### Genus EUACAINA Steyskal

*Notogramma*, subg. EUACAINA Steyskal, 1963a:199. Type-species, *cactipeodes* Steyskal (orig. des.). NEW STATUS.

CACTIPEODES (Steyskal), 1963a:199, figs. 3-4 (*Notogramma*). Type-locality: Peru, Lima, Santa Eulalia. Distr. — Peru.

#### Genus GONIAEOLA Hendel

*Goniaea* Hendel, 1909a:3, 71 (preocc. Stal, 1873). Type-species, *foveolata* Hendel (mon.).

GONIAEOLA Hendel, 1909c:414; 1909b:6, 44 (nom. nov. for *Goniaea* Hendel).  
Type-species, *Goniaea foveolata* Hendel (aut.).

FOVEOLATA (Hendel), 1909a:71; 1909b: pl. 4, figs. 82-83 (*Goniaea*). Type-locality: Bolivia, Songo. Distr. — Bolivia.

## Genus HERINA Robineau-Desvoidy

HERINA Robineau-Desvoidy, 1830:724. Type-species, *liturata* Robineau-Desvoidy (Rondani, 1856:109) = *germinationis* (Rossi).

Besides the species here listed, undescribed species occur in the Antilles.

AMABILIS (Williston), 1896:376 (*Epiplatea*). Type-locality: West Indies, Saint Vincent Island. Distr. — Saint Vincent Island. N. comb.

NARYTTA (Walker), 1849:1020 (*Trypeta*). Type-locality: U.S.A., Florida Distr. — U.S.A., West Indies (Bahama Islands). Ref. — McAlpine, 1951:310, fig. 1, a-d.

## Genus IDANOPHANA Hering

IDANOPHANA Hering, 1938:193. Type-species, *gephyra* Hering (orig. des.).

GEPHYRA Hering, 1938:195, fig. 8 (p. 189). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil.

## Genus MEGALAEMYIA Hendel

MEGALAEMYIA Hendel, 1909a:2; 1909b:5, 7. Type-species, *elsae* Hendel (Hendel, 1909b:7).

*Megaloprepemyia* Hendel, 1909b: pl. 1, fig. 1; 1914c:160 (nom. nov. for *Megalaemyia* Hendel, supposedly preoccupied by *Megalomyia* Bigot, 1880). Type-species, *Megalaemyia elsae* Hendel (aut.).

ALBOSTRIATA Hendel, 1909a:6; 1909b: pl. 1, fig. 4. Type-locality: Bolivia, Mapiri; Peru, Meshagua. Distr. — Peru, Bolivia.

COSTALIS Hendel, 1909a:8; 1909b: pl. 1, fig. 13. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.

ELSAE Hendel, 1909a:4; 1909b: pl. 1, figs. 1-2. Type-locality: Bolivia, Mapiri, Sarampiuni; Peru, Urubamba River. Distr. — Peru, Bolivia.

EXCELLENS (Hendel), 1914c:160, fig. 9 (*Megaloprepemyia*). Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.

PUNCTULATA Hendel, 1909a:5; 1909b: pl. 1, fig. 3. Type-locality: Bolivia, Mapiri. Distr. — Brazil (Rio de Janeiro), Bolivia.

RADIATA Hendel, 1909a:72; 1909b: pl. 4, fig. 85. Type-locality: Bolivia, Songo. Distr. — Brazil (Rio de Janeiro), Bolivia.

## Genus MICROPTEROCERUS Hendel

MICROPTEROCERUS Hendel, 1914c:173. Type-species, *longifacies* Hendel (orig. des.).

LONGIFACIES Hendel, 1914c:174, fig. 15. Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia.

## Genus NEOMYENNIS Hendel

NEOMYENNIS Hendel, 1914c:161. Type-species, *Myennis appendiculata* Hendel (orig. des.).

*Stypeostigma* Enderlein, 1927:103. Type-species, *Myennis appendiculata* Hendel (orig. des.).

- APPENDICULATA (Hendel), 1909a:14; 1909b: pl. 1, figs. 18-20 (*Myennis*). Type-locality: Brazil, Rio Grande do Sul; Paraguay. Distr. — Brazil, Paraguay, Uruguay, Argentina.
- CYANEIVENTRIS (Hendel), 1909a:73 (*Myennis*). Type-locality: Bolivia, Songo. Distr. — Bolivia.
- NIGRA (Hendel), 1909a:12 (*Myennis*). Type-locality: Peru, Meshagua, Uribamba River. Distr. — Peru.
- ZEBRA (Hendel), 1909a:15 (*Myennis*). Type-locality: Brazil, Rio Grande do Sul. Distr. — Brazil, Paraguay, Uruguay.

#### Genus NOTOGRAMMA Loew

- NOTOGRAMMA Loew, 1868a:289. Type-species, *cimiciforme* Loew (mon.). Ref. — Steyskal, 1963a.
- CIMICIFORME Loew, 1868a:289, pl. 2, fig. 3. Type-locality: "Cuba". Distr. — U.S.A., Mexico to Panama, West Indies (Cuba, Jamaica), Guyana, Venezuela, Colombia, Brazil, Ecuador, Peru; also immigrant in Oceania.
- FURPURATUM Cole, 1923:474, fig. 12. Type-locality: Mexico, Baja California, Monserrate Island. Distr. — U.S.A., Mexico (Baja California, San Luis Potosí, Oaxaca).
- STIGMA (Fabricius), 1798:564 (*Musca*). Type-locality: "Americae Insulis". Distr. — West Indies (Cuba, Puerto Rico, Virgin Islands, Mona Island, Bahamas, Jamaica, Antigua).
- obtusum* Fabricius, 1805:278 (*Dacus*). Type-locality: "Americae Insulis".

#### Genus OPTHALMOPTERA Hendel

- OPHTHALMOPTERA Hendel, 1909a:2, 69; 1909b:6, 43. Type-species, *longipennis* Hendel (Hendel, 1909b:43).

#### Subgenus OPTHALMOPTERA Hendel

- ELEGANS Hendel, 1909a:83. Type-locality: Bolivia, Songo; Venezuela. Distr. — Venezuela, Bolivia.
- INNOTATA Enderlein, 1921:213. Type-locality: Colombia, "tierra caliente". Distr. — Colombia.
- LONGIPENNIS Hendel, 1909a:69; 1909b: pl. 4, figs. 78-80. Type-locality: Bolivia, Songo. Distr. — Bolivia.
- UNDULATA Hendel, 1914c:166. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.

#### Subgenus PAROPHTHALMOPTERA Hendel

- PAROPHTHALMOPTERA Hendel, 1914c:166 (as genus). Type-species, *Ophthalmoptera picea* Hendel (orig. des.).
- PUNCTATA Hendel, 1909a:70; 1909b: pl. 4, fig. 81. Type-locality: Peru, Meshagua; Bolivia. Distr. — Peru, Bolivia.

PICEA (Hendel), 1914c:166 (*Parophthalmoptera*). Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.

#### Genus PARAGORGOPIS Giglio-Tos

PARAGORGOPIS Giglio-Tos, 1893:12; 1895:41. Type-species, *maculata* Giglio-Tos (mon.).

*Paragorgopsis*, emend.

ARGYRATA Hendel, 1914c:165, fig. 13. Type-locality: Peru, Pichis, Puerto Yessup. Distr. — Peru.

CANCELLATA Hendel, 1909a:61. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.

CLATHRATA Hendel, 1909a:59. Type-locality: Bolivia, Mapiri; Peru, Urubamba River. Distr. — Colombia, Peru, Bolivia.

DISCREPANS Hendel, 1914c:164, fig. 12. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.

MACULATA Giglio-Tos, 1893:12; 1895:41, pl. 12. Type-locality: Mexico, Tuxpango. Distr. — Mexico, Surinam, Peru, Bolivia, Paraguay.

MALLEA Hendel, 1909a:61; 1909b: pl. 3, figs. 57-60. Type-locality: Peru, Meshagua, Urubamba River; Bolivia, Mapiri, San Carlos. Distr. — Panama, Venezuela, Peru, Bolivia.

SCHNUSEI Hendel, 1909a:60. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.

#### Genus PERISSOZA Enderlein

PERISSOZA Enderlein, 1921:217. Type-species, *scripta* Enderlein (orig. des.).

SCRIPTA Enderlein, 1921:218. Type-locality: Brazil, Mato Grosso. Distr. — Brazil.

#### Genus PSEUDOMELIERIA Brèthes

PSEUDOMELIERIA Brèthes, 1922:142. Type-species, *argentina* Brèthes (mon.).

ARGENTINA Brèthes, 1922:142. Type-locality: Argentina, Catamarca, Andalgalá. Distr. — Argentina.

#### Genus PSEUDOPTEROCALLA Hendel

*Pterocalla*, subg. PSEUDOPTEROCALLA Hendel, 1909a:27; 1909b:18. Type-species, *Trypeta obscura* Wiedemann (Hendel, 1909b:18).

FENESTRATA (Wulp), 1899:394, pl. 10, fig. 30 (*Pterocalla*). Type-locality: Mexico, Veracruz, Atoyac; Tabasco, Teapa. Distr. — Mexico.

OBSCURA (Wiedemann), 1830a:499 (*Trypeta*). Type-locality: "Brazil". Distr. — Costa Rica, Guyana, Brazil.

SCUTELLATA (Schiner), 1868:286 (*Pterocalla*). Type-locality: "South America". Distr. — Costa Rica, Panama, Brazil, Peru, Bolivia.



# Genus PTEROCALLA Rondani

PTEROCALLA Rondani, 1848:83. Type-species, *Dictya ocellata* Fabricius (mon.).

## Subgenus PTEROCALLA Rondani

ANGUSTIPENNIS Hendel, 1909a:32. Type-locality: Bolivia, Songo. Distr. — Bolivia.

BELLA Giglio-Tos, 1895:39, pl., fig. 11. Type-locality: Mexico, Veracruz, Orizaba. Distr. — Mexico.

COSTALIS Wulp, 1899:396, pl. 11, figs. 5-6. Type-locality: Mexico, Guerrero, Chilpancingo and Amula. Distr. — Mexico.

*undulata* Cresson, 1906:283, pl. 6, fig. 6. Type-locality: Mexico, Jalisco, Guadalajara.

GUTTULATA Hendel, 1911c:31. Type-locality: "Bolivia". Distr. — Bolivia.

OCCELLATA (Fabricius), 1805:330 (*Dictya*). Type-locality: "South America". Distr. — Mexico (Veracruz), Guyana, Brazil, Bolivia.

OPHTHALMOPTERA Hendel, 1914c:161, fig. 10. Type-locality: Peru, Pichis, Puerto Yessup; Ucayali River, Unini. Distr. — Costa Rica, Honduras, Panama, Peru.

FENNATA Hendel, 1911c:29. Type-locality: "Bolivia". Distr. — Bolivia.

PENTOPHTHALMA Hendel, 1914c:162, fig. 11. Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia.

PROXIMA Hendel, 1914c:163. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.

PUNCTATA Hendel, 1909a:76. Type-locality: Bolivia, Songo; Paraguay. Distr. — Colombia, Brazil, Bolivia, Paraguay.

QUADRATA Wulp, 1899:394, pl. 11, fig. 1. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico, Peru, Bolivia.

RADIATA Hendel, 1909a:77. Type-locality: Bolivia, Songo and Coroico. Distr. — Bolivia.

RETICULATA Hendel, 1909a:33. Type-locality: Peru, Vilcanota; Paraguay, San Bernardino. Distr. — Peru, Paraguay.

STRIATA Hendel, 1909a:37. Type-locality: Peru, Vilcanota. Distr. — Peru.

## Subgenus PARAPTEROCALLA Aczél

*Eupterocalla* Enderlein, 1921:213 (as genus; preocc. Brèthes, 1916). Type-species, *Pterocalla plumitarsis* Hendel (orig. des.).

PARAPTEROCALLA Aczél, 1951:408 (nom. nov. for *Eupterocalla* Enderlein). Type-species, *Pterocalla plumitarsis* Hendel (aut.).

NITIDIVENTRIS Hendel, 1909a:75. Type-locality: "Paraguay". Distr. — Brazil (Mato Grosso), Paraguay.

OCULATA Hendel, 1909a:39. Type-locality: Peru, Callanga. Distr. — Peru.

PANTHERINA (Walker), 1852:386 (*Trypeta*). Type-locality: "Brazil". Distr. — Mexico (Tabasco), Panama, Trinidad, Colombia, Peru, Bolivia.

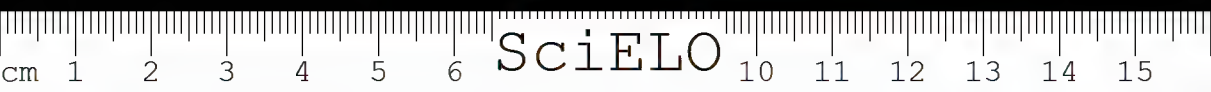
*tarsata* Schiner, 1868:287. Type-locality: "South America".

*rondanii* Schiner, 1868:287. Type-locality: "South America".

PLUMITARSIS Hendel, 1909a:36; 1909b: pl. 2, figs. 37-38. Type-locality: Bolivia, Mapiri and Songo. Distr. — Bolivia.

# Genus PTEROCERINA Hendel

- PTEROCERINA Hendel, 1909a:3, 41; 1909b:24. Type-species, *fenestrata* Hendel (Hendel, 1909b:24).
- ALBOGUTTATA Speiser, 1929:27. Type-locality: Brazil, Santa Catarina, Jaguaruá. Distr. — Brazil.
- AMERICANA Curran, 1934a:425, fig. 31. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana.
- ANASTREPHA Hendel, 1914c:167. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.
- ANGULATA Hendel, 1909a:48; 1909b: pl. 3, fig. 53. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- BASALIS Hendel, 1914c:169. Type-locality: Peru, Madre de Dios. Distr. — Peru.
- BIFASCIATA Hendel, 1909a:51. Type-locality: Peru, Urubamba River. Distr. — Peru.
- CLARIFASCIA Hendel, 1909a:47; 1909b: pl. 3, fig. 56. Type-locality: Bolivia, Mapiri, Sarampiuni; Peru, Meshagua, Urubamba River. Distr. — Peru, Bolivia.
- COLORATA Hendel, 1909a:49; 1909b: pl. 3, figs. 48-49. Type-locality: Bolivia, Mapiri, Sarampiuni; Peru, Ucayali River and mouth of Pachitea River. Distr. — Peru, Bolivia.
- COSTALIMAI Capoor, 1954:211, figs. 7-8. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- FENESTRATA Hendel, 1909a:45; 1909b: pl. 2, figs. 44-45. Type-locality: Bolivia, Mapiri, Sarampiuni; Peru, Urubamba River and Umuhuaniali. Distr. — Peru, Bolivia.
- FERRUGINEA Hendel, 1909a:50. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.
- FURCATA Hendel, 1909a:54; 1909b: pl. 3, fig. 47. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- GARLEPPI Enderlein, 1921:214. Type-locality: Peru, Cuzco, Callanga, Pini-pini Valley. Distr. — Peru.
- HENDELI Blanchard, 1938b:85, figs. 1, 11. Type-locality: Argentina, Misiones, Corrientes. Distr. — Argentina.
- INTERRUPTA Hendel, 1909a:52; 1909b: pl. 3, fig. 52. Type-locality: Peru, Urubamba River; Bolivia, Mapiri, Sarampiuni. Distr. — Peru, Bolivia.
- NIGRICAUDA Blanchard, 1938b:87, figs. 2, 12. Type-locality: Argentina, Misiones, Corrientes. Distr. — Argentina.
- NIGRIPENNIS Hendel, 1909a:46; 1909b: pl. 3, fig. 55. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- NIGRIPES Hendel, 1909a:56; 1909b: pl. 3, fig. 51. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- OBLITERATELLA Blanchard, 1948b:88, figs. 3, 10. Type-locality: Argentina, Misiones, Corrientes. Distr. — Argentina.
- OCHRACEA Hendel, 1909a:51. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.
- PALLIDIBASIS Curran, 1934a:426. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana.



- PARADOXA Hering, 1941:200, figs. 3-4. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil.
- PICEA Hendel, 1909a:55; 1909b: pl. 3, fig. 50. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- PLURIFURCATA Blanchard, 1938a:373. Type-locality: Argentina, Misiones, Corrientes. Distr. — Argentina.
- PSIDI Capoor, 1954:208, figs. 3-6. Type-locality: Brazil, Rio de Janeiro, Mendes. Distr. — Brazil.
- RUFICAUDA Hendel, 1914c:168. Type-locality: Mexico, Jalapa. Distr. — Mexico.
- SCALARIS Blanchard, 1938b:89, figs. 4, 7. Type-locality: Argentina, Misiones. Distr. — Argentina.
- TOWNSENDI Hendel, 1914c:169. Type-locality: Peru, Yahuarmayo. Distr. — Peru.
- TRIFASCIATA Hendel, 1909a:53; 1909b: pl. 3, fig. 46. Type-locality: Peru, Urubamba River, Umuhuankiali and Meshagua; Bolivia, Mapiri, San Ernesto and Sarampiuni and Chimate. Distr. — Peru, Bolivia.

#### Genus PTEROTAENIA Rondani

- PTEROTAENIA Rondani, 1868:28. Type-species, *Ortalis fasciata* Wiedemann (mon.).
- Apospasmica Loew, 1873:131. Type-species, *Ortalis fasciata* Wiedemann (orig. des.).
- Platyexesta Blanchard, 1967:3. Type-species, *rivelloides* Blanchard (orig. des.). N. SYN.
- ANGUSTIFASCIATA Malloch, 1933:257, pl. 3, fig. 10. Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina.
- EDWARDSI Malloch, 1933:256, pl. 3, fig. 9 (nom. nov. for *quinfasciata* Macquart). Type-locality: "Chile". Distr. — Peru (Moquegua), Chile (Angol, Santiago, Valparaíso).
- quinfasciata* Macquart, 1851:264 (291), pl. 27, fig. 4 (*Tephritis*; preocc. Macquart, 1835). Type-locality: "Chile".
- FASCIATA (Wiedemann), 1830a:460 (*Ortalis*). Type-locality: Uruguay, Montevideo. Distr. — Bolivia, Uruguay, Argentina, Chile.
- PERUANA Malloch, 1933:257. Type-locality: Peru, Trujillo. Distr. — Chile (Constitución), Peru.
- RIVELLOIDES (Blanchard), 1967:5, fig. 3 (*Platyexesta*). Type-locality: Argentina, Estación Experimental Agropecuaria San Juan. — Distr. — Argentina. N. COMB.

#### Genus RHYPAELLA Hendel

- RHYPAELLA Hendel, 1909a:2, 26; 1909b:6, 35. Type-species, *decempunctata* (Hendel 1909b: 35).
- DECEMPUNCTATA Hendel, 1909a:26; 1909b: pl. 2, figs. 32-34. Type-locality: Bolivia, Mapiri. Distr. — Brazil (Rio de Janeiro), Bolivia.
- NOVEMPUNCTATA Hendel, 1909a:79. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.

### Genus SCHNUSIMYIA Hendel

- SCHNUSIMYIA Hendel, 1914a:4, 18; 1914b:10, 27. Type-species, *parvula* Hendel (orig. des.). New placement; originally in Platystomatidae.  
PARVULA Hendel, 1914a:18; 1914b: pl. 2, figs. 38-40; 1909b: pl. 1, fig. 14 (without name). Type-locality: Peru, Ucayali River and Pichis; Bolivia, Mapiri, Sarampiuni. Distr. — Peru, Bolivia.

### Genus SEIOPTERA Kirby

- SEIOPTERA Kirby, in Kirby & Spence, 1817:305. Type-species, *Tephritis vibrans* Latreille (mon.) = *vibrans* (Linnaeus).  
Ref. — Steyskal, 1956 (revision).  
IMPORTANS Hennig, 1941:74, figs. 2, 4. Type-locality: "Chile". Distr. — Chile. Ref. — Steyskal, 1956:32, 1963c:878.

### Genus SYMPAECTRIA Hendel

- Pterocerina*, subg. SYMPAECTRIA Hendel, 1909a:41; 1909b:25, 26. Type-species, *Pterocerina acutipennis* Hendel (Aczél, 1951:417).  
ACUTIPENNIS (Hendel), 1909a:43; 1909b: pl. 3, fig. 54 (*Pterocerina*). Type-locality: Peru, Urubamba River; Bolivia, Mapiri, Sarampiuni and San Carlos. Distr. — Peru, Bolivia.  
STYLATA (Hendel), 1909a:44 (*Pterocerina*). Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.

### Genus SYSTATA Loew

- SYSTATA Loew, 1868b:5. Type-species, *Tephritis rivularis* Fabricius (mon.).  
ANGUSTATA Hendel, 1911c:24. Type-locality: "Bolivia". Distr. — Bolivia.

### Genus TERPNOMYIA Hendel

- TERPNOMYIA Hendel, 1909a:3, 17; 1909b:7, 29. Type-species, *angustifrons* Hendel (Hendel, 1909b:29).  
*Proterpnomia* Blanchard, 1967:2. Type-species, *tigrina* Blanchard (orig. des.) = *citrivitta* Enderlein. N. SYN.  
ANGUSTIFRONS Hendel, 1909a:17; 1909b: pl. 2, figs. 26-29. Type-locality: Bolivia, Mapiri; Peru, Pichis, Puerto Yessup. Distr. — Peru, Bolivia.  
BICOLOR Hendel, 1909a:80. Type-locality: Peru, Callanga. Distr. — Peru.  
CTTRIVITTA Enderlein, 1921:218. Type-locality: Uruguay, Montevideo. Distr. — Uruguay.  
*tigrina* Blanchard, 1967:2, fig. 1 (*Proterpnomia*). Type-locality: Argentina, Santiago del Estero; Chaco; Buenos Aires, San Miguel. N. SYN.  
COSTALIS Hendel, 1909a:81. Type-locality: Bolivia, Songo. Distr. — Bolivia.  
NITENS Hendel, 1909a:82. Type-locality: Bolivia, Songo. Distr. — Bolivia.  
SUBANDINA (Blanchard), 1967:3, fig. 2 (*Proterpnomia*). Type-locality: Argentina, Salta. Depto. Cafayate, Yacochuya; La Rioja. Distr. — Argentina. N. COMB.



### Genus TETANOPS Fallén

TETANOPS Fallén, 1820:2. Type-species, *myopinus* Fallén (mon.).

RUFFRONS Wulp, 1899:391, pl. 10, fig. 25. Type-locality: Mexico, Presidio de Mazatlán; Guerrero, Chilpancingo. Distr. — Mexico.

VITIFRONS Wulp, 1899:391, pl. 10, figs. 24, 24a. Type-locality: Mexico, Jalisco; Guerrero, Chilpancingo and Amula; Morelos, Cuernavaca. Distr. — U.S.A., Mexico.

### Genus TETRAPLEURA Schiner

TETRAPLEURA Schiner, 1868:289. Type-species, *picta* Schiner (orig. des.).

*Lathrostigma* Enderlein, 1921:214. Type-species, *limbatofasciatum* Enderlein (orig. des.). N. SYN.

LIMBATOFASCIATA (Enderlein), 1921:215 (*Lathrostigma*). Type-locality: Peru, Cuzco, Callanga, Pinipini Valley. Distr. — Peru. N. COMB.

PICTA Schiner, 1868:289, pl. 3, fig. 8. Type-locality: "South America". Distr. — South America (precise locality not known).

### Genus VESPOMIMA Enderlein

VESPOMIMA Enderlein, 1927:102. Type-species, *nigrotaenia* Enderlein (orig. des.).

NIGROTAENIA Enderlein, 1927:102. Type-locality: Argentina, Buenos Aires Province. Distr. — Argentina.

### Genus XANTHACRONA Wulp

XANTHACRONA Wulp, 1899:392. Type-species, *bipustulata* Wulp (mon.).

*Xanthocrona*, error or emend.

Ref. — Steyskal, 1966b (key).

BIPUSTULATA Wulp, 1899:393, pl. 10, figs. 29, 29a. Type-locality: Mexico, Presidio de Mazatlán. Distr. — U.S.A. (Texas), Mexico to Panama, West Indies (Cuba, Isle of Pines, Puerto Rico, Jamaica), Colombia, Brazil, Peru, Bolivia, Paraguay, Argentina (Misiones).

PHYLLOCHAETA Hendel, 1909a:74; 1909b: pl. 3, figs. 86-87. Type-locality: "Paraguay". Distr. — Peru (Amazonas), Bolivia (Beni), Paraguay.

TRIPUSTULATA Enderlein, 1921:212. Type-locality: "Paraguay". Distr. — Paraguay.

TUBEROSA Cresson, 1908:97, pl. 6, figs. 2-3. Type-locality: Surinam, Paramariho. Distr. — Trinidad, French Guiana, Surinam, Bolivia (Beni).

YPSILON Enderlein, 1921:212 (as variety of *bipustulata*). Type-locality: Paraguay, San Bernardino. Distr. — Honduras, Trinidad, French Guiana, Ecuador, Peru (Amazonas), Brazil (Rio de Janeiro), Paraguay.

## Subfamily ULIDIINAE

### Genus ACROSTICTA Loew

ACROSTICTA Loew, 1868a:293. Type-species, *scrobiculata* Loew (Coquillett, 1910:503).

ANDINA (Brèthes), 1922:144 (*Euxesta*). Type-locality: Argentina, Mendoza, Cacheuta; Catamarca, Andalgalá. Distr. — Argentina.

APICALIS (Williston), 1896:375, pl. 12, fig. 128 (*Euxesta*). Type-locality: West Indies, Saint Vincent Island. Distr. — U.S.A., West Indies (Bahamas, Cuba, Puerto Rico, Haiti, Dominican Republic, Jamaica, Martinique, Dominica), Guatemala to Panama and south to Argentina, Galápagos Islands; also immigrant in Africa and Oceania.

*similis* Cresson, 1924:238. Type-locality: West Indies, Jamaica, Portland.

FIEBRIGI Lindner, 1928:97. Type-locality: Paraguay, Trinidad near Asunción. Distr. — Paraguay.

FOVEOLATA Loew, 1868a:294. Type-locality: "Brazil". Distr. — West Indies (Puerto Rico, Saint Thomas), Brazil.

PROFUNDA Hendel, 1909e:251. Type-locality: Bolivia, Songo. Distr. — Guyana, Peru, Bolivia.

RIOJANA (Brèthes), 1922:143 (*Euxesta*). Type-locality: Argentina, La Rioja. Distr. — Argentina.

RUBIDA (Loew), 1876:377 (*Ulidia*). Type-locality: U.S.A., California. Distr. — U.S.A., Mexico (Baja California).

RUFICAUDA Hendel, 1909e:250; 1910: pl. 3, fig. 66. Type-locality: Peru, Vilcanota; Bolivia, Mapiri. Distr. — Peru, Bolivia.

RUFIVENTRIS Hendel, 1910:52, pl. 4, fig. 101. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico, Honduras, West Indies (Cuba, Puerto Rico, Saint Croix).

*mexicana* Cole, 1923:476, fig. 15. Type-locality: Mexico, Sonora, Tepoca Bay.

SCROBICULATA Loew, 1868a:293, pl. 2, fig. 5. Type-locality: "Brazil". Distr. — Mexico, El Salvador, West Indies (Saint Thomas), Guyana, Brazil, Peru.

WYTSMANI Hendel, 1910:52. Type-locality: "Peru". Distr. — Peru.

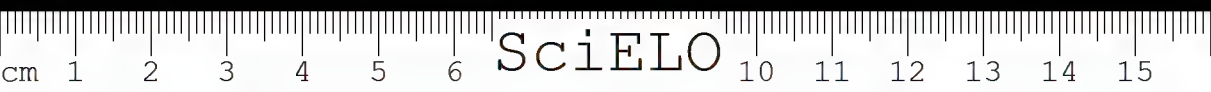
### Genus ACROSTICTOMYIA Blanchard

ACROSTICTOMYIA Blanchard, 1938a:368. Type-species, *subapicalis* Blanchard (orig. des.).

*Acrostictomyia*, lapsus.

LONGISTIGMA Blanchard, 1938a:370. Type-locality: Argentina, Entre Ríos, Concordia; Tucumán. Distr. — Argentina.

SUBAPICALIS Blanchard, 1938a:368. Type-locality: Argentina, Santiago del Estero. Distr. — Argentina.



### Genus ASPISTOMELLA Hendel

ASPISTOMELLA Hendel, 1909e:265. Type-species, *lobioptera* Hendel (orig. des.).  
HETEROPTERA Hendel, 1909e:266; 1910: pl. 3, figs. 54-55. Type-locality: Peru,  
Meshagua. Distr. — Peru.

LOBIOPTERA Hendel, 1909e:264; 1910: pl. 3, figs. 56-57. Type-locality: Bolivia,  
Mapiri; Peru, Ucayali River. Distr. — Peru, Bolivia.

### Genus AXIOLOGINA Hendel

AXIOLOGINA Hendel, 1909e:269. Type-species, *ferrumequinum* Hendel (orig.  
des.).

FERRUMEQUINUM Hendel, 1909e:268; 1910: pl. 3, figs. 76-79. Type-locality:  
Peru, Meshagua; Brazil. Distr. — Costa Rica, Panama, Guyana,  
Brazil, Peru.

### Genus CENCHROMETOPA Hendel

CENCHROMETOPA Hendel, 1909e:252. Type-species, *curvinervis* Hendel (orig.  
des.).

CURVINERVIS Hendel, 1909e:251; 1910: pl. 2, figs. 70-72. Type-locality: Peru,  
Urubamba River. Distr. — Peru.

### Genus CHAETOPSIS Loew

CHAETOPSIS Loew, 1868a:315. Type-species, *Ortalis aenea* Wiedemann (Co-  
quillet, 1910:521).

AENEA (Wiedemann), 1830a:462 (*Ortalis*). Type-locality: U.S.A., Louisiana,  
New Orleans. Distr. — U.S.A., Cuba.

ANOMALIPENNIS (Malloch), 1933:260, pl. 3, fig. 8 (*Euxesta*). Type-locality:  
Argentina, Mendoza, Potrerillos. Distr. — Argentina. N. comb.

ARMATICORNIS (Malloch), 1933:261, fig. 54, pl. 3, fig. 11 (*Euxesta*). Type-  
locality: Argentina, Buenos Aires, San Isidro. Distr. — Argen-  
tina. N. comb.

DEBILIS Loew, 1868a:318, pl. 2, fig. 22. Type-locality: West Indies, "Cuba".  
Distr. — U.S.A., Mexico, West Indies (Cuba).

FULVIFRONS (Macquart), 1855:145 (125), pl. 7, fig. 8 (*Urophora*). Type-  
locality: U.S.A., Maryland, Baltimore. Distr. — U.S.A., West  
Indies (Puerto Rico).

HALTERATA (Malloch), 1933:261, pl. 3, fig. 7 (*Euxesta*). Type-locality: Argen-  
tina, Buenos Aires. Distr. — Argentina, Brazil (Rio de Janeiro).  
N. comb.

MAJOR (Wulp), 1899:398, pl. 11, fig. 11 (*Euxesta*). Type-locality: Mexico,  
Veracruz, Orizaba. Distr. — U.S.A., Mexico, El Salvador. N. comb.

MUCRONATA Hendel, 1909e:256; 1910: pl. 2, fig. 39. Type-locality: Brazil,  
São Paulo. Distr. — Brazil.

**PRAECEPS** Hendel, 1909e:258; 1910: pl. 2, fig. 42. Type-locality: Brazil, São Paulo. Distr. — Brazil.

**QUADRIFASCIATA** Curran, 1928:80, fig. 32. Type-locality: West Indies, Puerto Rico, Barros. Distr. — U.S.A., West Indies (Puerto Rico).

### Genus EUMECOSOMYIA Hendel

**EUMECOSOMYIA** Hendel, 1909e:269. Type-species, *Epiplatea gracilis* Coquillett (mon.) = *nubila* (Wiedemann).

Ref. — Steyskal, 1966a (revision).

**HAMBLETONI** Steyskal, 1966a:100. Type-locality: Guatemala, Esquintla Province. Distr. — Guatemala.

**LACTEIVITTATA** Hendel, 1909e:270. Type-locality: Mexico, Veracruz, Orizaba. Distr. — Mexico (Aguascalientes, D.F., Querétaro, Veracruz).

**NUBILA** (Wiedemann), 1830a:660 (*Ortalis*). Type-locality: "Brazil". Distr. — U.S.A. (Texas), West Indies (Cuba, Haiti, Dominican Republic), Trinidad, Mexico, Guatemala, Nicaragua, Costa Rica, Venezuela, Brazil, Peru, Paraguay.

*gracilis* Coquillett, 1900:25 (*Epiplatea*). Type-locality: Mexico, Allende.

### Genus EUMETOPIELLA Hendel

*Eumetopia* Macquart, 1847:103 (87) (preocc. Westwood, 1837). Type-species, *rufipes* Macquart (orig. des.).

**EUMETOPIELLA** Hendel, 1907:98 (nom. nov. for *Eumetopia* Macquart). Type-species, *Eumetopia rufipes* Macquart (aut.).

**Neoeumetopiella** Hendel, 1936:78. Type-species, *Eumetopiella fascipennis* Hendel (orig. des.). N. SYN.

**ENGELI** Lindner, 1928:96. Type-locality: Argentina, Misión Tacaaglé. Distr. — Argentina.

**FASCIPENNIS** Hendel, 1911c:26. Type-locality: Paraguay, Toldo Cué. Distr. — Brazil (Pará), Paraguay.

**RUFIPES** (Macquart), 1847:104 (8), pl. 6, fig. 2 (*Eumetopia*). Type-locality: U.S.A., Pennsylvania, Philadelphia. Distr. — U.S.A., Mexico.

**RUFIVENTRIS** Hendel, 1911c:27. Type-locality: Paraguay, Toldo Cué. Distr. — Paraguay.

**VARIPES** (Loew), 1866:181 (Cent. 6, no. 87) (*Eumetopia*). Type-locality: West Indies, "Cuba". Distr. — U.S.A., West Indies (Bahamas, Cuba).

### Genus EUPHARA Loew

**EUPHARA** Loew, 1868a:291. Type-species, *Ceroxys caerulea* Macquart (mon.).

**CAERULEA** (Macquart), 1848:222 (62), pl. 7, fig. 6 (*Ceroxys*). Type-locality: Brazil, Rio Negro. Distr. — Guyana, Venezuela, Brazil, Peru.

### Genus EUXESTA Loew

**EUXESTA** Loew, 1868a:297. Type-species, *Ortalis notata* Wiedemann (Coquillett, 1910:543).

*Eusiesta*, error.



- Euxestina* Curran, 1934b:429. Type-species, *fuscipennis* Curran (orig. des.).  
N. SYN.
- Aloceuxesta* Hendel, 1936:78. Type-species, *Euxesta spoliata* Loew (orig. des.).
- Euxestina* Enderlein, 1937:438 (preocc. Curran, 1934). Type-species, *Musca costalis* Fabricius (orig. des.).  
Refs. — Hendel, 1909d (revision); Curran, 1935:9 (key).
- ABDOMINALIS Loew, 1868a:307, pl. 2, fig. 15. Type-locality: West Indies, "Cuba". Distr. — U.S.A., Bermuda, West Indies (Bahamas, Cuba, Puerto Rico, Mona, Saint Thomas, Saint Martin, Jamaica), Costa Rica, Panama.  
*diaphana* Wulp, 1882:90; 1883:54, pl. 2, fig. 12 (*Urophora*). Type-locality: West Indies, Saint Marten Island. N. SYN.
- ACUTA Hendel, 1909d:162; 1910: pl. 1, fig. 23. Type-locality: Peru, Callanga. Distr. — Peru.
- ACUTICORNIS Hendel, 1909d:165; 1910: pl. 1, fig. 25. Type-locality: Paraguay, Asunción. Distr. — Paraguay.
- ALTERNANS Loew, 1868a:308, pl. 2, fig. 16. Type-locality "Brazil". Distr. — Bermuda, West Indies (Dominica, Grenada), Mexico, Panama, Venezuela, Brazil, Argentina.  
*propinqua* Schiner, 1868:283 (*Amethysa*). Type-locality: "South America" (Venezuela).
- ANNONAE (Fabricius), 1794:358 (*Musca*). Type-locality: "West Indies" ("Americae Insulis"). Distr. — U.S.A., West Indies (Bahamas, Cuba, Puerto Rico, Saint Croix, Haiti, Jamaica), Guyana, Brazil, Bolivia; also immigrant in Oceania and Philippine Islands. The species recorded as *E. annonae* by Malloch, 1933:258, from Argentina and Chile is a species of *Chaetopsis*.  
*quadrivittata* Macquart, 1835:456 (*Urophora*). Type-locality: "Cuba".  
var. SCUTELLATA Johnson, 1919:445. Type-locality: West Indies, Jamaica, Montego Bay.
- ARCUATA Hendel, 1909d:166; 1910: pl. 2, fig. 26. Type-locality: Peru, Urubamba River. Distr. — Peru.
- ARGENTINA Brèthes, 1904:342, fig. 4. Type-locality: Argentina, Tucumán. Distr. — Argentina. Refs. — Hendel, 1909d:170; Malloch, 1933:259.
- ATRIPES Loew, 1868a:309, pl. 2, fig. 17. Type-locality: "Brazil". Distr. — Brazil.
- AUSTRALIS Lindner, 1928:95. Type-locality: Argentina, San José. Described as "südlich Form" of *E. notata* (Wied.); unrecognized.
- AYALA (Walker), 1849:1020 (*Trypeta*). Type-locality: West Indies, "Jamaica". Distr. — West Indies (Jamaica, Puerto Rico), Panama, Venezuela.  
*latifascia* Schiner, 1868:283 (*Amethysa*). Type-locality: "South America" (Venezuela). N. SYN.
- alternata* Curran, 1935:19, fig. 3. Type-locality: Panama, Canal Zone, Barro Colorado Island. N. SYN.
- BASALIS (Walker), 1852:373 (*Ortalis*). Type-locality: "U.S.A.". Distr. — U.S.A., West Indies (Bahamas).
- BIFASCIATA Becker, 1919:197. Type-locality: Ecuador, Quinua-Loma, Yausai, El Angel, La Rinconada, Tulcán, and Cuenca. Distr. — Ecuador.

- BILIMEKI Hendel, 1909d:163. Type-locality: Mexico, "Guadelup" (= Guadalupe). Distr. — Mexico (D.F., Nuevo León [Guadalupe], San Luis Potosí).
- BINOTATA Loew, 1868a:304, pl. 2, fig. 12. Type-locality: West Indies, "Cuba". Distr. — West Indies (Cuba).
- EIPUNCTATA (Macquart), 1835:505 (*Ulidia*). Type-locality: "Brazil". Unrecognized.
- CALLIGYNA (Bigot), 1857a:304, pl. 7, fig. 3 (*Amethysa*). Type-locality: "Chile". Distr. — Chile. Ref. — Malloch, 1933:258.
- CALLONA Steyskal, 1966c:487, fig. 11. Type-locality: Galápagos, Isla Santa Cruz. Distr. — Galápagos Islands (Isla Santa Cruz).
- CAVAGNAROI Steyskal, 1966c:487, figs. 2, 10a-b. Type-locality: Galápagos, Isla Wolf. Distr. — Galápagos Islands (Isla Wolf).
- CHAVANNEI Brèthes, 1914:87, fig. 1. Type-locality: Argentina, Tucumán. Distr. — Argentina.
- CONSERATA Wulp, 1899:399, pl. 11, fig. 14. Type-locality: Mexico, Veracruz, Atoyac. Distr. — Mexico.
- COSTALIS (Fabricius), 1794:360 (*Musca*). Type-locality: "Americae meridionalis Insulis". Distr. — West Indies (Cuba, Puerto Rico, Saint John, Saint Thomas, Jamaica).
- aculeata* Fabricius, 1805:275 (*Dacus*). Type-locality: "Americae Insulis".
- DECISA (Walker), 1857:227 (*Herina*). Type-locality: "Brazil". Unrecognized.
- ELUTA Loew, 1868a:312, pl. 2, fig. 19. Type-locality: West Indies, "Cuba". Distr. — U.S.A., Mexico, West Indies, (Cuba, Puerto Rico, Barbados), Brazil, Peru, Bolivia, Paraguay, Chile, Argentina.
- FENESTRATA Coquillett, 1904:95. Type-locality: Guatemala, Champerico. Distr. — Guatemala.
- FUSCIPENNIS (Curran), 1934a:429 (*Euxestina*). Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana. N. comb.
- GALAPAGENSIS Curran, 1934c:156. Type-locality: Galapagos, Isla Española. Distr. — Galapagos Islands (Islas Santa Cruz, Pinzón, Wolf, Fernandina, Española). Ref. — Steyskal, 1966c: 489, figs. 3a-c.
- GEMINATA Hendel, 1909d:158; 1910: pl. 1, fig. 16. Type-locality: Peru, Meshagua. Distr. — Peru.
- GUIANICA Curran, 1934a:431. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana.
- HENDELI Lindner, 1928:95. Type-locality: Argentina, Tapikiolé. Distr. — Argentina.
- INSOLITA Hendel, 1909d:168. Type-locality: Peru, Vilcanota. Distr. — Peru.
- INTERMEDIA (Lynch Arribáizaga), 1881:191 (*Amethysa*). Type-locality: Argentina, Patagonia, Río Colorado. Distr. — Argentina.
- INTRUDENS (Walker), 1857:228 (*Herina*). Type-locality: "Amazon". According to Hendel, apparently a synonym of *E. annonae*; unrecognized.
- JUNCTA Coquillett, 1904:95. Type-locality: Nicaragua, Granada. Distr. — U.S.A. (Texas), Nicaragua, Costa Rica, West Indies (Bahamas, Jamaica). This species was misidentified by Hendel; his species is named below.

- JUNCTULA** Steyskal, new species. Holotype, female, Peru, Meshagua (coll. Schnuse). The description as of *Euxesta juncta* Coquillett by Hendel, 1909d:160, and the figure of the wing given by Hendel, 1910: pl. 1, fig. 22, will serve adequately to describe this species. It differs from *E. juncta* in the wing pattern: while *E. junctula* has a single hyaline area in the apical half of the wing, *E. juncta* has two hyaline areas in the apical half of the wing, the posterior one extending from the posterior wing margin to a point just anterad of the 4th vein and separated from the anterior area by an oblique brown band running posterobasad from the brown apex of the wing to the posterior end of the band crossing the posterior crossvein.
- LACTEPENNIS** Hendel, 1909d:156. Type-locality: Bolivia, Mapiri. Distr. — Guyana, Bolivia, Northern Argentina.
- LATIFASCIATA** Wulp, 1899:397, pl. 11, fig. 9. Type-locality: Mexico, Morelos, Cuernavaca. Distr. — Mexico.
- LEUCOMELAS** (Walker), 1860:325 (*Ortalis*). Type-locality: "South America" (Brazil). Distr. — Mexico, Guyana, Brazil (Rio de Janeiro).
- fascipennis* Wulp, 1899:398, pl. 11, fig. 10. Type-locality: Mexico, Veracruz, Orizaba; Guerrero, Tepetla; Veracruz, Medellin; Tabasco, Teapa. N. SYN. from types of both species.
- LUNATA** Hendel, 1909d:157; 1910: pl. 1, fig. 17. Type-locality: Peru, Meshagua. Distr. — Peru.
- LUTEOCESTA** Foote, 1960:95, fig. 3. Type-locality: West Indies, Bahamas, Exuma Cays. Distr. — U.S.A. (Florida), West Indies (Bahamas).
- MACQUARTI** (Schiner), 1868:282 (*Amethysa*). Type-locality: "South America" (Venezuela). Distr. — Venezuela.
- MACULATA** Hendel, 1909d:169. Type-locality: Bolivia, Mapiri; Peru, Meshagua. Distr. — Panama, Guyana (as *E. bipunctata* [Macquart] by Curran, 1934a:437), Peru, Bolivia.
- MITIS** Curran, 1931:17, fig. 4. Type-locality: West Indies, Virgin Islands, Vieques Islands, Puerto Real. Distr. — West Indies (Vieques Island).
- NESIOTIS** Steyskal, 1966c:490. Type-locality: Galápagos, Isla Pinzón. Distr. — Galápagos Islands (Isla Pinzón).
- NIGRICANS** Wulp, 1899:397, pl. 11, fig. 8. Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero, Veracruz).
- NITIDIVENTRIS** Loew, 1873:157. Type-locality: U.S.A., Texas. Distr. — U.S.A., Guyana (Curran, 1934a:431), ?Galápagos. Records of this species from outside U.S.A. should be checked, because most have been found erroneous.
- NOTATA** (Wiedemann), 1830a:462 (*Ortalis*). Type-locality: U.S.A., New York and Georgia. Distr. — U.S.A., Mexico (Baja California, Monserrate and San José Islands), West Indies (Bahamas, Puerto Rico), ?Galápagos.
- OBLIQUA** (Thomson), 1869:574 (*Ortalis*). Type-locality: Peru, Callao. Unrecognized.
- OBLIQUESTRATA** Hendel, 1909d:167; 1910: pl. 1, fig. 19. Type-locality: Brazil; Bolivia; Paraguay. Distr. — Ecuador, Brazil, Bolivia, Paraguay.



- PANAMENA** Curran, 1935:20, fig. 4. Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Guatemala, Costa Rica, Panama, Colombia.
- PHOEBIA** Steyskal, 1966c:491, fig. 1. Type-locality: Galápagos, Isla Santa Cruz. Distr. — Galápagos Island (Isla Santa Cruz).
- PUNCTIPENNIS** Enderlein, 1937:438. Type-locality: British Honduras, Manatee. Distr. — British Honduras.
- PUSIO** Loew, 1868a:299, pl. 2, fig. 8. Type-locality: West Indies, "Cuba". Distr. — Bermuda, West Indies (Cuba, Jamaica).
- QUATERNARIA** Loew, 1868a:302 pl. 2, fig. 11. Type-locality: West Indies, "Cuba". Distr. — U.S.A., West Indies (Bahamas, Cuba, Saint Thomas, Jamaica), Panama.
- REMOTA** Cresson, 1924:238. Type-locality: West Indies, Cuba, Habana. Distr. — West Indies (Cuba).
- SCHINERI** Hendel, 1909d:160; 1910: pl. 1, fig. 20 (nom. nov. for *basalis* Schiner). Type-locality: "Venezuela". Distr. — Venezuela, Peru, Bolivia.
- basalis* Schiner, 1868:284 (*Amethysa*; preocc. Walker, 1852). Type-locality: "South America" (Venezuela).
- SCHNUSEI** Hendel, 1909d:161. Type-locality: Peru. Meshagua. Distr. — Peru.
- SCHUSTERI** Steyskal, 1966c:491, fig. 12. Type-locality: Galápagos, Isla Santa Cruz. Distr. — Galápagos Islands (Islas Santa Maria, Isabela, Santa Cruz).
- SCORIACEA** Loew, 1876:336. Type-locality: U.S.A., Texas. Distr. — U.S.A., West Indies (Bahamas).
- SCORIACINA** Hendel, 1936:77. Type-locality: Brazil, Pará, Santarém. Distr. — Brazil.
- SIMILIS** Enderlein, 1937:438. Type-locality: Costa Rica; Southern Brazil; Mexico. Distr. — Mexico, Costa Rica, Brazil.
- SORORCULA** (Wiedemann), 1830a:463 (*Ortalis*). Type-locality: "Brazil". Distr. — Mexico, Brazil, Peru, Bolivia, Argentina.
- SPODIA** Steyskal, 1966c:492, figs. 4a-c. Type-locality: Galápagos, Isla Santa Cruz. Distr. — Galápagos Island (Isla Santa Cruz).
- SPOLIATA** Loew, 1868a:298, pl. 2, fig. 7. Type-locality: West Indies, "Cuba". Distr. — U.S.A., Mexico, West Indies (Cuba, Puerto Rico, Saint Croix), Panama, Brazil, Bolivia, Paraguay, Argentina.
- platystoma* Thomson, 1869:572 (*Ortalis*). Type-locality: "Panama".
- laticeps* Wulp, 1899:397, pl. 11, figs. 7, 7a. Type-locality: Mexico, Tabasco, Teapa. N. SYN. from type examination.
- skinneri* Cresson, 1924:237 (*Psairoptera*). Type-locality: West Indies, Cuba, Guantánamo. N. SYN.
- STIGMA** Hendel, 1909d:159. Type-locality: Peru, Urubamba River. Distr. — West Indies (Barbados), Peru, Chile.
- STIGMATIAS** Loew, 1868a:310, pl. 2, fig. 18. Type-locality: West Indies, Cuba; Brazil. Distr. — U.S.A., Mexico to Panama, West Indies (Bahamas, Cuba, Puerto Rico, Mona, Saint Croix, Jamaica, Saint Vincent, Grenada, Barbados), Trinidad, Guyana, Venezuela, Brazil, Peru, Bolivia.



- TEPOCAE (Cole), 1923:475, figs. 13-14 (*Acrosticta*). Type-locality: Mexico, Sonora, Tepoca Bay. Distr. — Mexico. N. comb.
- THOMAE Loew, 1868a:306, pl. 2, fig. 14. Type-locality: West Indies, Saint Thomas Island. Distr. — U.S.A., West Indies (Puerto Rico, Saint Thomas, Saint Croix, Vieques, Barbados).
- UNDULATA Hendel, 1913:636. Type-locality: "Paraguay". Distr. — Paraguay.
- WETTSTEINI Hendel, 1909d:165; 1910: pl. 1, fig. 21. Type-locality: Brazil, São Paulo, Iguape. Distr. — Trinidad, Venezuela, Brazil, Paraguay.

#### Genus HYPOECTA Loew

- HYPOECTA Loew, 1868a:318. Type-species, *longula* Loew (mon.).
- LONGULA Loew, 1868a:319, pl. 2, fig. 23. Type-locality: Brazil, São Paulo, Santos. Distr. — Brazil, Paraguay.

#### Genus METOPOCAMPTA Enderlein

- METOPOCAMPTA Enderlein, 1927:104. Type-species, *planiceps* Enderlein (orig. des.).
- PLANICEPS Enderlein, 1927:104. Type-locality: Brazil, Santa Catarina, Joinville. Distr. — Brazil.

#### Genus OEDOPA Loew

- OEDOPA Loew, 1868a:287. Type-species, *capito* Loew (mon.).
- ELEGANS Giglio-Tos, 1893:12; 1895:42. Type-locality: Mexico, Oaxaca. Distr. — Mexico.

#### Genus PARAPHYOLA Hendel

- PARAPHYOLA Hendel, 1909e:262. Type-species, *angustifrons* Hendel (mon.).
- ANGUSTIFRONS Hendel, 1909e:261; 1910: pl. 3, figs. 52-53. Type-locality: Peru, Meshagua and Pichis. Distr. — Peru.
- CRUCIFERA Hendel, 1909e:262. Type-locality: Peru, Meshagua. Distr. — Peru.

#### Genus PAREUXESTA Coquillett

- PAREUXESTA Coquillett, 1901:376. Type-species, *latifasciata* Coquillett (orig. des.).
- Ref. — Steyskal, 1966c:486, 493-497, figs. 5-9 (revision).
- ACADEMICA Steyskal, 1966c:493, fig. 8. Type-locality: Galápagos, Isla Santa Cruz. Distr. — Galápagos Islands (Islas Santa Cruz, Pinzón).
- HYALINATA Coquillett, 1901:377. Type-locality: Galápagos, Isla Isabela. Distr. — Galápagos Islands (Isla Isabela).
- INTERMEDIA Coquillett, 1901:377. Type-locality: Galápagos, Isla Isabela. Distr. — Galápagos Islands (Isla Isabela).
- LATIFASCIATA Coquillett, 1901:376. Type-locality: Galápagos, Isla Genovesa. Distr. — Galápagos Islands (Isla Genovesa).

- OBSCURA Coquillett, 1901:377. Type-locality: Galápagos, Isla Isabela. Distr. — Galápagos Islands (Islas Isabela, Daphne Major).  
 XANTHOMERA Steyskal, 1966c:496, fig. 9. Type-locality: Galápagos, Isla Santa Cruz. Distr. — Galápagos Islands (Isla Santa Cruz).

#### Genus PHYSIPHORA Fallén

- PHYSIPHORA Fallén, 1810:11. Type-species, *Chrysomyza splendida* Fallén (sub. mon.; Fallén, 1817:3) = *demandata* (Fabricius).  
*Chrysomyza* Fallén, 1817:3 (nom. nov. for *Physiphora* Fallén, supposedly preoccupied by *Physophora* Forskal, 1775). Type-species, *splendida* Fallén (mon.) = *demandata* (Fabricius).  
*Cliochothoria* Enderlein, 1927:103. Type-species, *Musca aenea* Fabricius (orig. des.).  
 Ref. — Séguy, 1941 (key).  
 AENEAE (Fabricius), 1794:335 (*Musca*). Type-locality: "Asia". Distr. — Asia, Africa, Australia, Oceania, U.S.A., Mexico, Brazil.  
 DEMANDATA (Fabricius), 1794:564 (*Musca*). Type-locality: "Europe". Distr. — Europe, Asia, Africa, U.S.A., Mexico (Sonora), Chile, Argentina.  
*atabula* (Blanchard), 1967:6 (*Chrysomyza*). Type-locality: Argentina, Mendoza; Godoy Cruz; Mendoza; Estación Experimental Agropecuaria San Juan. N. SYN.

#### Genus PLAGIOCEPHALUS Wiedemann

- PLAGIOCEPHALUS Wiedemann, 1830b:12. Type-species, *lobularis* Wiedemann (mon.).  
*Plagiocephala*, emend.  
*Stylophthalmyia* Frey, 1926:45. Type-species, *fascipennis* Frey (orig. des.) = *latifrons* (Hendel).  
*Ophryoterpnomomyia* Hendel, 1936:76. Type-species, *Terpnomomyia latifrons* Hendel (orig. des.).  
*Paragoniaeola* Blanchard, 1938a:370. Type-species, *tanycephala* Blanchard (orig. des.) = *lobularis* Wiedemann.  
*Eupterocerina* Blanchard, 1938b:91. Type-species, *conjuncta* Blanchard (orig. des.) = *lobularis* Wiedemann. N. SYN.  
*Willineria* Blanchard, 1951:32. Type-species, *orfilai* Blanchard (mon.) = *latifrons* (Hendel).  
 Refs. — Steyskal, 1963b, 1964 (revision).  
 LATIFRONS (Hendel), 1909:18; 1909b: pl. 2, figs. 30, 31 (*Terpnomomyia*). Type-locality: Bolivia, Mapiri; Peru, Urubamba River. Distr. — Guatemala to Panama, Peru, Bolivia.  
*fascipennis* Frey, 1926:46 (*Stylophthalmyia*). Type-locality: "Guatemala".  
*orfilai* Blanchard, 1951:32, figs. (*Willineria*). Type-locality: Bolivia, Yungas, Charape.  
 LOBULARIS Wiedemann, 1830a:355; 1830b:15, pl. 2, fig. 1. Type-locality: "Brazil". Distr. — Brazil, Paraguay, Argentina.  
*tanycephala* Blanchard, 1938a:371, fig. 8e (*Paragoniaeola*). Type-locality: Argentina, Misiones.

*conjuncta* Blanchard, 1938b:91, figs. 5, 8 (*Eupterocerina*). Type-locality: Argentina, Misiones, Puerto Bemberg. N. SYN.

*zikani* Capoor, 1954:205, figs. 1-2 (*Ophryoterpnomyia*). Type-locality: Brazil, Rio de Janeiro, Itatiaia.

#### Genus POLYTELOPTERA Hendel

POLYTELOPTERA Hendel, 1909e:263. Type-species, *apotropa* Hendel (mon.).

APOTROPA Hendel, 1909e:263; 1910: pl. 2, figs. 46-48. Type-locality: Brazil, São Paulo. Distr. — Brazil.

#### Genus SIOPA Hendel

SIOPA Hendel, 1909e:254. Type-species, *longicornis* Hendel (mon.).

LONGICORNIS Hendel, 1909e:253; 1910: pl. 3, figs. 67-69. Type-locality: Peru, Meshagua. Distr. — Costa Rica, Panama, Peru.

#### Genus STENOMYIA Loew

STENOMYIA Loew, 1868a:320. Type-species, *tenuis* Loew (mon.).

ANGUSTA (Hendel), 1909e:260; 1910: pl. 2, fig. 40 (*Chaetopsis*). Type-locality: Brazil, São Paulo. Distr. — Brazil, Argentina.

LATICAUDA (Hendel), 1909e:259 (*Chaetopsis*). Type-locality: Paraguay, Puerto Max. Distr. — Paraguay.

TENUISSIMA (Hendel), 1910:28, pl. 2, fig. 43 (*Euxesta*). Type-locality: U.S.A., Georgia. Distr. — U.S.A., West Indies (Bahamas, Cuba).

#### Genus STICTOMYIA Bigot

STICTOMYIA Bigot, 1885:clxvi. Type-species, *longicornis* Bigot (mon.).

LONGICORNIS Bigot, 1885:clxvi. Type-locality: "Mexico". Distr. — U.S.A., Mexico.

#### Genus ULIVELLIA Speiser

ULIVELLIA Speiser, 1929:28. Type-species, *inversa* Speiser (orig. des.).

INVERSA Speiser, 1929:30, fig. 1. Type-locality: Brazil, Santa Catarina, Jaraguá. Distr. — Brazil.

#### Genus ZACOMPSIA Coquillett

ZACOMPSIA Coquillett, 1901:15. Type-species, *fulva* Coquillett (orig. des.).

METALLICA Curran, 1934a:430. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana.

#### UNPLACED GENERA AND SPECIES

CONSPERSA Walker, 1857:221 (*Dorycera*). Type-locality: "Colombia". Possibly near *Euxesta*.

## Genus ORTALIDINA Blanchard

- ORTALIDINA Blanchard, 1852:455. Type-species, *cellularis* Blanchard (mon.).  
 CELLULARIS Blanchard, 1852:455, pl. 5, fig. 11. Type-locality: Chile, Santa Rosa, etc. It seems likely that this is *Acrometopia australis* Malloch (Chamaemyiidae).  
 DECORATA Blanchard, 1852:453 (*Ortalis*). Type-locality: Chile, Coquimbo.  
 OCHRASPIS Wiedemann, 1830a:466 (*Ortalis*). Type-locality: "Brazil".  
 PICTA Blanchard, 1852:454 (*Ortalis*). Type-locality: Chile, Coquimbo, etc.  
 STRIOLATA Blanchard, 1852:453 (*Ortalis*). Type-locality: Chile, Coquimbo.  
 FULVIFRONS Bigot, 1857b:347 (826) (*Ulidia*). Type-locality: West Indies, Cuba.  
 METALLICA Bigot, 1857b:347 (825), pl. 20, figs. 11, 11a-b (*Ulidia*). Type-locality: West Indies, Cuba. It is likely that this is a *Lonchaeid*.  
 ANTILLARUM Macquart, 1851:262 (289), pl. 26, fig. 17 (*Urophora*). Type-locality: "West Indies". Osten Sacken stated that this species might belong in *Euxesta*, but I consider that quite doubtful.

### NOMINA NUDA

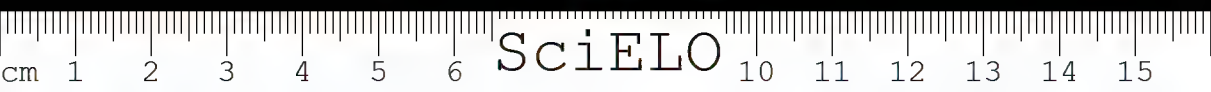
- coaternastra* Pazos, 1914:999 (*Euxesta*). Possibly misreading of *quaternaria*.  
*vitaleis* Pazos, 1914:999 (*Ortalis*).

### LITERATURE CITED

See no. 53, Richardiidae

### INDEX

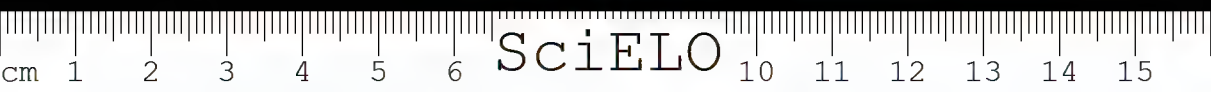
|   |       |
|---|-------|
| <i>abdominalis</i> Loew, 1868a, <i>Euxesta</i> .....                                | 54.16 |
| <i>academica</i> Steyskal, 1966, <i>Pareuxesta</i> .....                            | 54.20 |
| <i>Aciuroides</i> Hendel, 1914 .....  | 54.1  |
| <i>Acrosticta</i> Loew, 1868 .....  | 54.13 |
| <i>Acrostictella</i> Hendel, 1914 .....   | 54.2  |
| <i>Acrostictiomyia</i> , lapsus for <i>Acrostictomyia</i> , q.v. ....               | 54.13 |
| <i>Acrostictomyia</i> Blanchard, 1938 .....   | 54.13 |
| <i>aculcata</i> (Fabricius), 1805 ( <i>Dacus</i> ), <i>Euxesta</i> .....            | 54.17 |
| <i>acuta</i> Hendel, 1909d, <i>Euxesta</i> .....                                    | 54.16 |
| <i>acuticornis</i> Hendel, 1909, <i>Euxesta</i> .....                               | 54.16 |
| <i>acutipennis</i> (Hendel), 1909 ( <i>Pterocerina</i> ), <i>Sympaectria</i> .....  | 54.11 |
| <i>aenea</i> (Fabricius), 1794 ( <i>Musca</i> ), <i>Physiphora</i> .....            | 54.21 |
| <i>aenea</i> (Wiedemann), 1830 ( <i>Ortalis</i> ), <i>Chaetopsis</i> .....          | 54.14 |
| <i>alboguttata</i> Speiser, 1929, <i>Pterocerina</i> .....                          | 54.9  |
| <i>albostrigata</i> Hendel, 1909, <i>Megalaemyia</i> .....                          | 54.5  |
| <i>Aloceuxesta</i> Hendel, 1936 .....   | 54.16 |
| <i>alternans</i> Loew, 1868, <i>Euxesta</i> .....                                   | 54.16 |
| <i>alternata</i> Curran, 1935, <i>Euxesta</i> .....                                 | 54.16 |
| <i>amabilis</i> (Williston), 1896 ( <i>Epiplatea</i> ), <i>Herina</i> .....         | 54.5  |
| <i>americana</i> Curran, 1934, <i>Pterocerina</i> .....                             | 54.9  |
| <i>amoena</i> (Enderlein), 1921 ( <i>Paragorgopsis</i> ), <i>Apterocerina</i> ..... | 54.2  |
| <i>Anacampta</i> Loew, 1868 .....   | 54.2  |



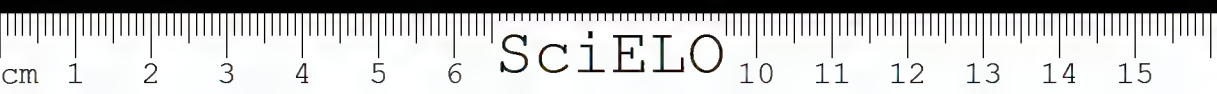


|   |       |
|---|-------|
| <i>anastrepha</i> Hendel, 1914, Pterocerina .....                 | 54.9  |
| <i>andina</i> (Brèthes), 1922 (Euxesta), Acrosticta .....         | 54.13 |
| <i>angulata</i> Hendel, 1909, Pterocerina .....                   | 54.9  |
| <i>angusta</i> (Hendel), 1909 (Chaetopsis), Stenomyia .....       | 54.22 |
| <i>angustata</i> Hendel, 1911, Systata .....                      | 54.11 |
| <i>angustifasciata</i> Malloch, 1933, Pterotaenia .....           | 54.10 |
| <i>angustifrons</i> Hendel, 1909, Paraphyola .....                | 54.20 |
| <i>angustrifrons</i> Hendel, 1909, Terpnomyia .....               | 54.11 |
| <i>angustipennis</i> Hendel, 1909, Pterocalla .....               | 54.8  |
| <i>annonae</i> (Fabricius), 1794 (Musca), Euxesta .....           | 54.16 |
| <i>anomalipennis</i> (Malloch), 1933 (Euxesta), Chaetopsis .....  | 54.14 |
| <i>antillarum</i> Macquart, 1851, Urophora, unrecognized .....    | 54.23 |
| <i>apicalis</i> (Williston), 1896 (Euxesta), Acrosticta .....     | 54.13 |
| <i>Apospasmica</i> Loew, 1873 .....                               | 54.10 |
| <i>apotropa</i> Hendel, 1909, Polyteloptera .....                 | 54.22 |
| <i>appendiculata</i> (Hendel), 1909 (Myennis), Neomyennis .....   | 54.6  |
| <i>Apterocerina</i> Hendel, 1914 .....                            | 54.2  |
| <i>arcuata</i> Hendel, 1909, Euxesta .....                        | 54.16 |
| <i>arcuatum</i> Hendel, 1909, Chondrometopum .....                | 54.2  |
| <i>argentea</i> Hendel, 1914, Apterocerina .....                  | 54.2  |
| <i>argentina</i> Brèthes, 1904, Euxesta .....                     | 54.16 |
| <i>argentina</i> Brèthes, 1922, Pseudomeligeria .....             | 54.7  |
| <i>argyrata</i> Hendel, 1914, Paragorgopis .....                  | 54.7  |
| <i>armaticornis</i> (Malloch), 1933 (Euxesta), Chaetopsis .....   | 54.14 |
| <i>Aspistomella</i> Hendel, 1909 .....                            | 54.14 |
| <i>atabula</i> (Blanchard), 1967 (Chrysomyza), Physiphora .....   | 54.21 |
| <i>atripes</i> Loew, 1868, Euxesta .....                          | 54.16 |
| <i>australis</i> Lindner, 1928, Euxesta .....                     | 54.16 |
| <i>avala</i> (Walker), 1849 (Trypeta), Euxesta .....              | 54.16 |
| <i>Axiologina</i> Hendel, 1909 .....                              | 54.14 |
| <i>basalis</i> Hendel, 1914, Pterocerina .....                    | 54.9  |
| <i>basalis</i> (Schiner), 1868 (Amethysa), Euxesta .....          | 54.19 |
| <i>basalis</i> (Walker), 1852 (Ortalidina), Euxesta .....         | 54.16 |
| <i>bella</i> Giglio-Tos, 1895, Pterocalla .....                   | 54.8  |
| <i>bestifer</i> (Hendel), 1909 (Megalaemyia), Cymatozus .....     | 54.3  |
| <i>bicolor</i> Hendel, 1909, Terpnomyia .....                     | 54.11 |
| <i>bifasciata</i> Becker, 1919, Euxesta .....                     | 54.16 |
| <i>bifasciata</i> Hendel, 1909, Pterocerina .....                 | 54.9  |
| <i>bifenestratum</i> Kertész, 1913, Chondrometopum .....          | 54.3  |
| <i>bilimeki</i> Hendel, 1909, Euxesta .....                       | 54.17 |
| <i>binotata</i> Loew, 1868, Euxesta .....                         | 54.17 |
| <i>bipunctata</i> Hendel, 1909, Ophthalmoptera .....              | 54.6  |
| <i>bipunctata</i> (Macquart), 1835 (Ulidia), Euxesta .....        | 54.17 |
| <i>bipustulata</i> Wulp, 1899, Xanthacrona .....                  | 54.12 |
| <i>Bothrometopa</i> Hendel, 1909 .....                            | 54.2  |
| <i>cactipeodes</i> (Steyskal), 1963 (Notogramma), Euacaina .....  | 54.4  |
| <i>caerulea</i> (Macquart), 1848 (Geroxys), Euphara .....         | 54.15 |
| <i>calligyna</i> (Bigot), 1857 (Amethysa), Euxesta .....          | 54.17 |
| <i>callona</i> Steyskal, 1966, Euxesta .....                      | 54.17 |
| <i>cancellata</i> Hendel, 1909, Paragorgopis .....                | 54.7  |
| <i>Carlottaemyia</i> Bigot, 1877 .....                            | 54.4  |
| <i>cavagneroi</i> Steyskal, 1966, Euxesta .....                   | 54.17 |
| <i>cellularis</i> Blanchard, 1852, Ortalidina, unrecognized ..... | 54.23 |
| <i>Cenchrometopa</i> Hendel, 1909 .....                           | 54.14 |

|  |       |
|--|-------|
| Ceroxys Macquart, 1835 .....   | 54.2  |
| Chaetopsis Loew, 1868 .....  | 54.14 |
| chavannei Brèthes, 1914, Euxesta .....                                 | 54.17 |
| Chondrometopum Hendel, 1909 .....                                      | 54.2  |
| <i>Chrysomya</i> Fallén, 1817 .....                                    | 54.21 |
| cimiciforme Loew, 1868, Notogramma .....                               | 54.6  |
| citrivitta Enderlein, 1921, Terpnomyia .....                           | 54.11 |
| clarifascia Hendel, 1909, Pterocerina .....                            | 54.9  |
| clathrata Hendel, 1909, Paragorgopis .....                             | 54.7  |
| clavipes Hendel, 1909, Coscinum .....                                  | 54.3  |
| <i>Clio chloria</i> Enderlein, 1927 .....                              | 54.21 |
| coaternastra Pazos, 1914, Euxesta (nomen nudum) .....                  | 54.23 |
| colorata Hendel, 1909, Pterocerina .....                               | 54.9  |
| <i>conjuncta</i> (Blanchard), 1938 (Eupterocerina), Plagiocephalus ... | 54.22 |
| conserta Wulp, 1899, Euxesta .....                                     | 54.17 |
| conspersa Walker, 1857, Dorycera, unplaced .....                       | 54.22 |
| Coscinum Hendel, 1909 .....  | 54.3  |
| costalimai Capoor, 1954, Pterocerina .....                             | 54.9  |
| costalis (Fabricius), 1794 (Musca), Euxesta .....                      | 54.17 |
| costalis Gerstaecker, 1860, Diacrita .....                             | 54.4  |
| costalis Hendel, 1909, Megalaemyia .....                               | 54.5  |
| costalis Hendel, 1909, Terpnomyia .....                                | 54.11 |
| costalis Wulp, 1899, Pterocalla .....                                  | 54.8  |
| crucifera Hendel, 1909, Paraphyola .....                               | 54.20 |
| curvinervis Hendel, 1909, Cenchrometope .....                          | 54.14 |
| cyaneiventris (Hendel), 1909 (Myennis), Neomyennis .....               | 54.6  |
| Cymatozus Enderlein, 1912 .....  | 54.3  |
| Cyrtomostoma Hendel, 1909 .....  | 54.3  |
|  |       |
| Dasymetopa Loew, 1868 .....  | 54.3  |
| debilis Loew, 1868, Chaetopsis .....                                   | 54.14 |
| decempunctata Hendel, 1909, Rhyparella .....                           | 54.10 |
| decisa (Walker), 1857 (Herina), Euxesta .....                          | 54.17 |
| decorata Blanchard, 1852, Ortalis, unrecognized .....                  | 54.23 |
| demandata (Fabricius), 1794 (Musca), Physiphora .....                  | 54.21 |
| determinata (Walker), 1857 (Herina), Bothrometopa .....                | 54.2  |
| Diacrita Gerstaecker, 1860 .....                                       | 54.4  |
| <i>diaphana</i> (Wulp), 1882 (Urophora), Euxesta .....                 | 54.16 |
| discrepans Hendel, 1914, Paragorgopis .....                            | 54.7  |
| Dyscrasis Aldrich, 1932 .....  | 54.4  |
|  |       |
| edwardsi Malloch, 1933, Pterotaenia .....                              | 54.10 |
| Elapata Hendel, 1909 .....   | 54.4  |
| elegans Giglio-Tos, 1893, Oedopa .....                                 | 54.20 |
| elegans Hendel, 1909, Ophthalmoptera .....                             | 54.6  |
| elsae Hendel, 1909, Megalaemyia .....                                  | 54.5  |
| eluta Loew, 1868, Euxesta .....  | 54.17 |
| engeli Lindner, 1928, Eumetopiella .....                               | 54.15 |
| Euacaina Steyskal, 1963 .....  | 54.4  |
| Eumecosomyia Hendel, 1909 .....  | 54.15 |
| <i>Eumetopia</i> Macquart, 1847 .....                                  | 54.15 |
| Eumetopiella Hendel, 1907 .....  | 54.15 |
| Euphara Loew, 1868 .....   | 54.15 |

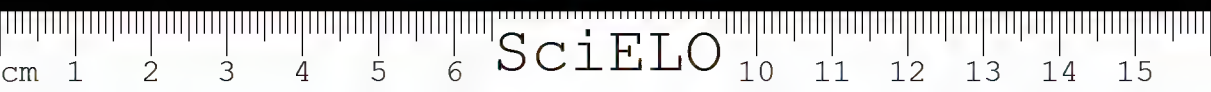


|   |       |
|---|-------|
| <i>Eupterocalla</i> Enderlein, 1921 .....   | 54.8  |
| <i>Eupterocerina</i> Blanchard, 1938 .....  | 54.21 |
| <i>Eusieta</i> , error for <i>Euxesta</i> , q.v.  |       |
| <i>Euxesta</i> Loew, 1868 .....   | 54.15 |
| <i>Euxestina</i> Curran, 1934 .....   | 54.16 |
| <i>Euxestina</i> Enderlein, 1937 .....  | 54.16 |
| <i>excellens</i> (Enderlein), 1921 (Paragorgopsis) <i>Apterocerina</i> .....            | 54.2  |
| <i>excellens</i> (Hendel), 1914 ( <i>Megaloprepemyia</i> ), <i>Megalaemyia</i> .....    | 54.5  |
| <i>fasciata</i> Hering, 1941, <i>Aciuiroides</i> .....                                  | 54.1  |
| <i>fasciata</i> (Wiedemann), 1830 ( <i>Ortalis</i> ), <i>Pterotaenia</i> .....          | 54.10 |
| <i>fasciipennis</i> (Enderlein), 1921 (Paragorgopsis), <i>Apterocerina</i> ....         | 54.2  |
| <i>fasciipennis</i> (Frey), 1926 ( <i>Stylophthalmyia</i> ), <i>Plagiocephalus</i> .... | 54.21 |
| <i>fasciipennis</i> Hendel, 1911, <i>Eumetopiella</i> .....                             | 54.15 |
| <i>fasciipennis</i> Wulp, 1899, <i>Euxesta</i> .....                                    | 54.18 |
| <i>fenestellatus</i> (Hendel), 1909 ( <i>Megalaemyia</i> ), <i>Cymatozus</i> .....      | 54.3  |
| <i>fenestrata</i> Coquillett, 1904, <i>Euxesta</i> .....                                | 54.17 |
| <i>fenestrata</i> Hendel, 1909, <i>Dasymetopa</i> .....                                 | 54.3  |
| <i>fenestrata</i> Hendel, 1909, <i>Pterocerina</i> .....                                | 54.9  |
| <i>fenestrata</i> (Wulp), 1899 ( <i>Pterocalla</i> ), <i>Pseudopterocalla</i> .....     | 54.7  |
| <i>ferruginea</i> Hendel, 1909, <i>Pterocerina</i> .....                                | 54.9  |
| <i>ferrumequinum</i> Hendel, 1909, <i>Axiologina</i> .....                              | 54.14 |
| <i>fiebrigi</i> Lindner, 1928, <i>Acrosticta</i> .....                                  | 54.13 |
| <i>foveolata</i> (Hendel), 1909 ( <i>Goniaea</i> ), <i>Goniaeola</i> .....              | 54.4  |
| <i>foveolata</i> Loew, 1868, <i>Acrosticta</i> .....                                    | 54.13 |
| <i>fulvifrons</i> Bigot, 1857, <i>Ulidia</i> , unrecognized .....                       | 54.23 |
| <i>fulvifrons</i> (Macquart), 1855 ( <i>Urophora</i> ), <i>Chaetopsis</i> .....         | 54.14 |
| <i>fumipennis</i> Hendel, 1909, <i>Dasymetopa</i> .....                                 | 54.3  |
| <i>furcata</i> Hendel, 1909, <i>Pterocerina</i> .....                                   | 54.9  |
| <i>fuscicosta</i> Hendel, 1911, <i>Desymetopa</i> .....                                 | 54.3  |
| <i>fuscipennis</i> (Curran), 1934 ( <i>Euxestina</i> ), <i>Euxesta</i> .....            | 54.17 |
| <i>galapagensis</i> Curran, 1934, <i>Euxesta</i> .....                                  | 54.17 |
| <i>gamma</i> Hendel, 1909, <i>Bothrometopa</i> .....                                    | 54.2  |
| <i>garleppi</i> Enderlein, 1921, <i>Pterocerina</i> .....                               | 54.9  |
| <i>geminata</i> Hendel, 1909, <i>Euxesta</i> .....                                      | 54.17 |
| <i>gephyra</i> Hering, 1938, <i>Idanophana</i> .....                                    | 54.5  |
| <i>gigas</i> Hendel, 1909, <i>Cyrtomostoma</i> .....                                    | 54.3  |
| <i>Goniaea</i> Hendel, 1909 .....   | 54.4  |
| <i>Goniaeola</i> Hendel, 1909 .....   | 54.4  |
| <i>gracilis</i> (Coquillett), 1900 ( <i>Epiplatea</i> ), <i>Eumecosomyia</i> .....      | 54.15 |
| <i>guianica</i> Curran, 1934, <i>Euxesta</i> .....                                      | 54.17 |
| <i>guttulata</i> Hendel, 1911, <i>Pterocalla</i> .....                                  | 54.8  |
| <i>halterata</i> (Malloch), 1933 ( <i>Euxesta</i> ), <i>Chaetopsis</i> .....            | 54.14 |
| <i>hambletoni</i> Steyskal, 1966, <i>Eumecosomyia</i> .....                             | 54.15 |
| <i>hendeli</i> Aldrich, 1932, <i>Dyscrasis</i> .....                                    | 54.4  |
| <i>hendeli</i> Blanchard, 1938, <i>Pterocerina</i> .....                                | 54.19 |
| <i>hendeli</i> Lindner, 1928, <i>Euxesta</i> .....                                      | 54.17 |
| <i>Herina</i> Robineau-Desvoidy, 1830 .....   | 54.5  |
| <i>heteroptera</i> Hendel, 1909, <i>Aspistomella</i> .....                              | 54.14 |
| <i>hyalinata</i> Coquillett, 1901, <i>Pareuxesta</i> .....                              | 54.20 |
| <i>Hypoecta</i> Loew, 1868 .....  | 54.20 |



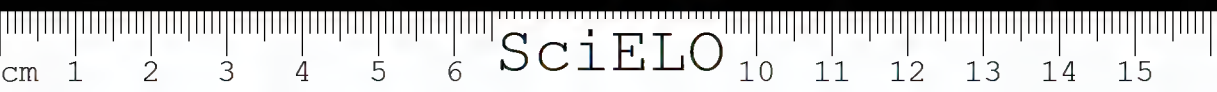


|  |       |
|--|-------|
| Idanophana Hering, 1938 .....  | 54.5  |
| importans Hennig, 1941, Seioptera .....                                      | 54.11 |
| innotata Enderlein, 1921, Ophthalmoptera .....                               | 54.6  |
| insecta Hendel, 1914, Aciuroides .....                                       | 54.1  |
| insolita Hendel, 1909, Euxesta .....   | 54.17 |
| intermedia Coquillett, 1901, Pareuxesta .....                                | 54.20 |
| intermedia (Lynch-Arribálzaga), 1881 (Amethysa), Euxesta .....               | 54.17 |
| interrupta Hendel, 1909, Pterocerina .....                                   | 54.19 |
| intrudens (Walker), 1857 (Herina), Euxesta .....                             | 54.17 |
| inversa Speiser, 1929, Ulivellia .....                                       | 54.22 |
|  |       |
| juncta Coquillett, 1904, Euxesta .....                                       | 54.17 |
| junctula Steyskal, new, Euxesta .....  | 54.18 |
|  |       |
| lacteipennis Hendel, 1909, Euxesta .....                                     | 54.18 |
| lacteivittata Hendel, 1909, Eumecosomyia .....                               | 54.15 |
| <i>Lathrostigma</i> Enderlein, 1921 .....                                    | 54.12 |
| laticauda (Hendel), 1909 (Chaetopsis), Stenomyia .....                       | 54.22 |
| <i>laticeps</i> Wulp, 1899, Euxesta .....                                    | 54.19 |
| <i>latifascia</i> (Schiner), 1868 (Amethysa), Euxesta .....                  | 54.16 |
| latifasciata Coquillett, 1901, Pareuxesta .....                              | 54.20 |
| latifasciata Wulp, 1899, Euxesta .....                                       | 54.18 |
| latifrons (Hendel), 1909 (Terpnomyia), Plagiocephalus .....                  | 54.21 |
| latiusculus (Loew), 1873 (Anacampta), Ceroxys .....                          | 54.2  |
| leucomelas (Walker), 1860 (Ortalis), Euxesta .....                           | 54.18 |
| leve Hendel, 1914, Chondrometopum .....                                      | 54.3  |
| limbatofasciata (Enderlein), 1921 ( <i>Lathrostigma</i> ), Tetrapleura ..... | 54.12 |
| lobioptera Hendel, 1909, Aspistomella .....                                  | 54.14 |
| lobularis Wiedemann, 1830, Plagiocephalus .....                              | 54.21 |
| longicornis Bigot, 1885, Stictomyia .....                                    | 54.22 |
| longicornis Hendel, 1909, Siopa .....  | 54.22 |
| longifacies Hendel, 1914, Micropterocerus .....                              | 54.5  |
| longipennis Hendel, 1909, Ophthalmoptera .....                               | 54.6  |
| longistigma Blanchard, 1938, Acrostictomyia .....                            | 54.13 |
| longula Loew, 1868, Hypoecta .....   | 54.20 |
| lunata Hendel, 1909, Euxesta .....   | 54.18 |
| luteipennis Hendel, 1909, Dasymetopa .....                                   | 54.3  |
| luteocesta Foote, 1960, Euxesta .....  | 54.18 |
| lutulenta Loew, 1868, Dasymetopa .....                                       | 54.3  |
|  |       |
| macquarti (Schiner), 1868 (Amethysa), Euxesta .....                          | 54.18 |
| maculata Giglio-Tos, 1893, Paragorgopis .....                                | 54.7  |
| maculata Hendel, 1909, Euxesta .....   | 54.18 |
| major (Wulp), 1899 (Euxesta), Chaetopsis .....                               | 54.14 |
| mallea Hendel, 1909, Paragorgopis .....                                      | 54.7  |
| marginatus (Hendel), 1909 (Megalaemyia), Cymatozus .....                     | 54.3  |
| Megalaemyia Hendel, 1909 .....   | 54.5  |
| <i>Megaloprepemyia</i> Hendel, 1909 .....                                    | 54.5  |
| metallica Bigot, 1857, Ulidia, unrecognized .....                            | 54.23 |
| metallica Curran, 1934, Zacompsia .....                                      | 54.22 |
| Metopocampata Enderlein, 1927 .....  | 54.20 |
| <i>mexicana</i> Cole, 1923, Acrosticta .....                                 | 54.13 |

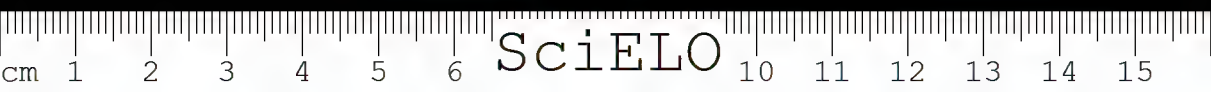




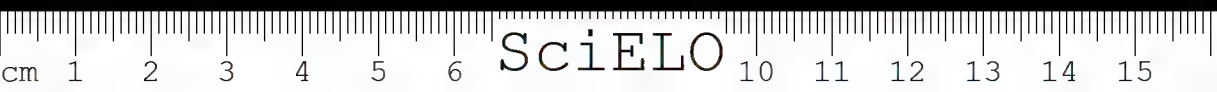
|  |       |
|--|-------|
| Micropterocerus Hendel, 1914 .....                           | 54.5  |
| mitis Curran, 1931, Euxesta .....                            | 54.18 |
| moerens (Bigot), 1877 (Carlottaemyia), Diacrita .....        | 54.4  |
| mucronata Hendel, 1909, Chaetopsis .....                     | 54.14 |
| narytia (Walker), 1849 (Trypeta), Herina .....               | 54.5  |
| Neoeumetopiella Hendel, 1936 .....                           | 54.15 |
| Neomyennis Hendel, 1914 .....                                | 54.5  |
| nesiotis Steyskal, 1966, Euxesta .....                       | 54.18 |
| nigra (Hendel), 1909 (Myennis), Neomyennis .....             | 54.6  |
| nigricans Wulp, 1899, Euxesta .....                          | 54.18 |
| nigricauda Blanchard, 1938, Pterocerina .....                | 54.9  |
| nitidipennis Hendel, 1909, Pterocerina .....                 | 54.9  |
| nigripes Hendel, 1909, Pterocerina .....                     | 54.9  |
| nigropunctata Hendel, 1909, Dasymetopa .....                 | 54.3  |
| nigrotaenia Enderlein, 1927, Vespomima .....                 | 54.12 |
| nitens Hendel, 1909, Terpnomyia .....                        | 54.11 |
| nitidiventris Hendel, 1909, Pterocalla .....                 | 54.8  |
| nitidiventris Loew, 1872, Euxesta .....                      | 54.18 |
| notata (Wiedemann), 1830 (Ortalis), Euxesta .....            | 54.18 |
| Notogramma Loew, 1868 .....                                  | 54.6  |
| novempunctata Hendel, 1909, Rhyparella .....                 | 54.10 |
| nubila (Wiedemann), 1830 (Ortalis), Eumecosomyia .....       | 54.15 |
| obliqua (Thomson), 1869 (Ortalis), Euxesta .....             | 54.18 |
| obliquestriata (Hendel, 1909, Euxesta .....                  | 54.18 |
| obliteratella Blanchard, 1938, Pterocerina .....             | 54.9  |
| obscura Coquillett, 1901, Pareuxesta .....                   | 54.21 |
| obscura (Wiedemann), 1830 (Trypeta), Pseudopterocalla .....  | 54.7  |
| obtusum (Fabricius), 1805 (Dacus), Notogramma .....          | 54.6  |
| ocellata (Fabricius), 1805 (Dictya), Pterocalla .....        | 54.8  |
| ochracea Hendel, 1909, Dasymetopa .....                      | 54.3  |
| ochracea Hendel, 1909, Pterocerina .....                     | 54.9  |
| ochraspis Wiedemann, 1830, Ortalis, unrecognized .....       | 54.23 |
| oculata Hendel, 1909, Pterocalla .....                       | 54.8  |
| Oedopa Loew, 1868 .....                                      | 54.20 |
| Ophthalmoptera Hendel, 1909 .....                            | 54.6  |
| ophthalmoptera Hendel, 1914, Pterocalla .....                | 54.8  |
| Ophryoterpnomyia Hendel, 1936 .....                          | 54.21 |
| orfilai (Blanchard), 1951 (Willineria), Plagiocephalus ..... | 54.21 |
| Ortalidina Blanchard, 1852, unrecognized .....               | 54.23 |
| Ortalis (unrecognized spp.) .....                            | 54.23 |
| Otitinae .....   | 54.1  |
| pallidibasis Curran, 1934, Pterocerina .....                 | 54.9  |
| panamena Curran, 1935, Euxesta .....                         | 54.19 |
| pantherina (Walker), 1852 (Trypeta), Pterocalla .....        | 54.8  |
| paradoxa Hering, 1941, Pterocerina .....                     | 54.10 |
| Paragoniaeola Blanchard, 1938 .....                          | 54.21 |
| Paragorgopis Giglio-Tos, 1893 .....                          | 54.7  |
| Paragorgopsis, emendation for Paragorgopis .....             | 54.7  |
| parallela Hendel, 1914, Acrostictella .....                  | 54.2  |
| Paraphyola Hendel, 1909 .....                                | 54.20 |
| Parapterocalla Aczél, 1951 .....                             | 54.8  |



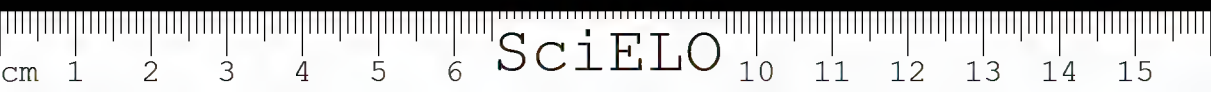
|  |       |
|--|-------|
| Pareuxesta Coquillett, 1901 .....                                      | 54.20 |
| Parophthalmoptera Hendel, 1914 .....                                   | 54.6  |
| parvula Hendel, 1914, Schnusimyia .....                                | 54.11 |
| pennata Hendel, 1911, Pterocalla .....                                 | 54.8  |
| pentophthalma Hendel, 1914, Pterocalla .....                           | 54.8  |
| Perissoza Enderlein, 1921 .....  | 54.7  |
| peruana Malloch, 1933, Pterotaenia .....                               | 54.10 |
| phoebe Steyskal, 1966, Euxesta .....                                   | 54.19 |
| phyllochaeta Hendel, 1909, Xanthacrona .....                           | 54.12 |
| Physiphora Fallén, 1810 .....  | 54.21 |
| picea (Hendel), 1914 (Parophthalmoptera), Ophthalmoptera .....         | 54.7  |
| picea Hendel, 1909, Pterocerina .....                                  | 54.10 |
| picta Blanchard, 1852, Ortalis, unrecognized .....                     | 54.23 |
| picta Schiner, 1868, Tetrupleura .....                                 | 54.12 |
| <i>Plagiocephala</i> , emendation for <i>Plagiocephalus</i> , q.v.     |       |
| <i>Plagiocephalus</i> Wiedemann, 1830 .....                            | 54.21 |
| planiceps Enderlein, 1927, Metopocampta .....                          | 54.20 |
| <i>Platyexesta</i> Blanchard, 1967 .....                               | 54.10 |
| <i>platystoma</i> (Thomson), 1869 (Ortalis), Euxesta .....             | 54.19 |
| plummanni Hering, 1941, Aciuiroides .....                              | 54.1  |
| plumitarsis Hendel, 1909, Pterocalla .....                             | 54.8  |
| plurifurcata Blanchard, 1928, Pterocerina .....                        | 54.10 |
| polymorphomyioides Enderlein, 1912, Cymatozus .....                    | 54.3  |
| Polyteloptera Hendel, 1909 .....                                       | 54.22 |
| praeceps Hendel, 1909, Chaetopsis .....                                | 54.15 |
| profunda Hendel, 1909, Acrosticta .....                                | 54.13 |
| <i>propinqua</i> (Schiner), 1868 (Amethysa), Euxesta .....             | 54.16 |
| <i>Proterpnomyia</i> Blanchard, 1967 .....                             | 54.11 |
| proxima Hendel, 1914, Pterocalla .....                                 | 54.8  |
| Pseudomelieria Brèthes, 1922 .....                                     | 54.7  |
| Pseudopterocalla Hendel, 1909 .....                                    | 54.7  |
| psidii Capoor, 1954, Pterocerina .....                                 | 54.10 |
| Pterocalla Rondani, 1848 .....   | 54.8  |
| Pterocerina Hendel, 1909 .....   | 54.9  |
| Pterotaenia Rondani, 1868 .....  | 54.10 |
| punctata Hendel, 1909, Pterocalla .....                                | 54.8  |
| punctipennis Enderlein, 1937, Euxesta .....                            | 54.19 |
| punctulata Hendel, 1909, Megalaemyia .....                             | 54.5  |
| purpuratum Cole, 1923, Notogramma .....                                | 54.6  |
| pusio Loew, 1868, Euxesta .....  | 54.19 |
| quadrata Wulp, 1899, Pterocalla .....                                  | 54.8  |
| quadrifasciata Curran, 1928, Chaetopsis .....                          | 54.15 |
| <i>quadrivittata</i> (Macquart), 1835 (Urophora), Euxesta .....        | 54.16 |
| quaternaria Loew, 1868, Euxesta .....                                  | 54.19 |
| <i>quinquefasciata</i> (Macquart), 1851 (Tephritis), Pterotaenia ..... | 54.10 |
| quinquepunctata Hendel, 1911, Dasymetopa .....                         | 54.3  |
| radiata Hendel, 1909, Megalaemyia .....                                | 54.5  |
| radiata Hendel, 1909, Pterocalla .....                                 | 54.8  |
| recta Hendel, 1914, Apterocerina .....                                 | 54.2  |
| remipes Hendel, 1909, Elapata .....                                    | 54.4  |
| remota Cresson, 1924, Euxesta .....                                    | 54.19 |
| reticulata Hendel, 1909, Pterocalla .....                              | 54.8  |



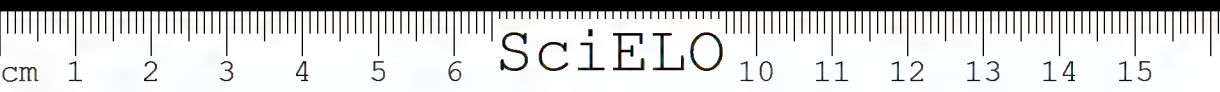
|   |       |
|---|-------|
| <i>Rhyparella</i> Hendel, 1900 .....  | 54.10 |
| <i>riojana</i> (Brèthes), 1922 (Euxesta), <i>Acrosticta</i> .....                         | 54.13 |
| <i>rivelloides</i> (Blanchard), 1967 (Platyexesta), <i>Pterotaenia</i> .....              | 54.10 |
| <i>rondanii</i> Schiner, 1868, <i>Pterocalla</i> .....                                    | 54.8  |
| <i>rubida</i> (Loew), 1876 (Ulidia), <i>Acrosticta</i> .....                              | 54.13 |
| <i>ruficauda</i> Hendel, 1909, <i>Acrosticta</i> .....                                    | 54.13 |
| <i>ruficauda</i> Hendel, 1914, <i>Pterocerina</i> .....                                   | 54.10 |
| <i>rufifrons</i> Wulp, 1899, <i>Tetanops</i> .....  | 54.12 |
| <i>rufipes</i> (Macquart), 1847 (Eumetopia), <i>Eumetopiella</i> .....                    | 54.15 |
| <i>rufiventris</i> Hendel, 1910, <i>Acrosticta</i> .....                                  | 54.13 |
| <i>rufiventris</i> Hendel, 1911, <i>Eumetopiella</i> .....                                | 54.15 |
| <i>scalaris</i> Blanchard, 1938, <i>Pterocerina</i> .....                                 | 54.10 |
| <i>schineri</i> Hendel, 1909, <i>Euxesta</i> .....  | 54.19 |
| <i>schnusei</i> Hendel, 1909, <i>Euxesta</i> .....  | 54.19 |
| <i>schnusei</i> Hendel, 1909, <i>Paragorgopis</i> .....                                   | 54.7  |
| <i>Schnusimyia</i> Hendel, 1914 .....   | 54.11 |
| <i>schusteri</i> Steyskal, 1966, <i>Euxesta</i> .....                                     | 54.19 |
| <i>scoriacea</i> Loew, 1876, <i>Euxesta</i> .....   | 54.19 |
| <i>scoriacina</i> Hendel, 1936, <i>Euxesta</i> .....                                      | 54.19 |
| <i>scripta</i> Enderlein, 1921, <i>Perissozoa</i> .....                                   | 54.7  |
| <i>scrobiculata</i> Loew, 1868, <i>Acrosticta</i> .....                                   | 54.13 |
| <i>scutellaris</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Dyscrasis</i> .....           | 54.4  |
| <i>scutellata</i> Johnson, 1919, <i>Euxesta</i> .....                                     | 54.16 |
| <i>scutellata</i> (Schiner), 1868 ( <i>Pterocalla</i> ) <i>Pseudopterocalla</i> .....     | 54.7  |
| <i>Seioptera</i> Kirb, 1817 .....   | 54.11 |
| <i>sempunctata</i> Hendel, 1909, <i>Dasymetopa</i> .....                                  | 54.4  |
| <i>similis</i> Cresson, 1924, <i>Acrosticta</i> .....                                     | 54.13 |
| <i>similis</i> Enderlein, 1937, <i>Euxesta</i> .....                                      | 54.19 |
| <i>Siopa</i> Hendel, 1909 .....   | 54.22 |
| <i>skinneri</i> (Cresson), 1924 ( <i>Psairoptera</i> ), <i>Euxesta</i> .....              | 54.19 |
| <i>sordida</i> Hendel, 1909, <i>Dasymetopa</i> .....                                      | 54.4  |
| <i>sororcula</i> (Wiedemann), 1830 ( <i>Ortalis</i> ), <i>Euxesta</i> .....               | 54.19 |
| <i>spodia</i> Steyskal, 1966, <i>Euxesta</i> .....  | 54.19 |
| <i>spoliata</i> Loew, 1868, <i>Euxesta</i> .....  | 54.19 |
| <i>Stenomyia</i> Loew, 1868 .....   | 54.22 |
| <i>Stictomyia</i> Bigot, 1885 .....   | 54.22 |
| <i>stigma</i> (Fabricius), 1789 ( <i>Musca</i> ), <i>Notogramma</i> .....                 | 54.6  |
| <i>stigma</i> Hendel, 1909, <i>Dasymetopa</i> .....                                       | 54.4  |
| <i>stigma</i> Hendel, 1909, <i>Euxesta</i> .....  | 54.19 |
| <i>stigmatias</i> Loew, 1868, <i>Euxesta</i> .....  | 54.19 |
| <i>striata</i> Hendel, 1909, <i>Pterocalla</i> .....                                      | 54.8  |
| <i>striolata</i> Blanchard, 1852, <i>Ortalis</i> , unrecognized .....                     | 54.23 |
| <i>stylata</i> (Hendel), 1909 ( <i>Pterocerina</i> ), <i>Sympaectria</i> .....            | 54.11 |
| <i>Stylophthalmyia</i> Frey, 1926 .....   | 54.21 |
| <i>Stypeostigma</i> Enderlein, 1927 .....   | 54.5  |
| <i>subandina</i> (Blanchard), 1967 ( <i>Proterpnomyia</i> ), <i>Terpnomyia</i> ....       | 54.11 |
| <i>subapicalis</i> Blanchard, 1938, <i>Acrostictomyia</i> .....                           | 54.13 |
| <i>Sympaectria</i> Hendel, 1909 .....   | 54.11 |
| <i>Systata</i> Loew, 1868 .....   | 54.11 |
| <i>tanycephala</i> (Blanchard), 1938 ( <i>Paragoniaela</i> ), <i>Plagiocephalus</i> ..... | 54.21 |
| <i>tarsata</i> Schiner, 1868, <i>Pterocalla</i> .....                                     | 54.8  |
| <i>tenuissima</i> (Hendel), 1910 ( <i>Euxesta</i> ), <i>Stenomya</i> .....                | 54.22 |



|  |       |
|--|-------|
| tepocae (Cole), 1923 (Acrosticta), Euxesta .....               | 54.20 |
| Terpnomyia Hendel, 1909 .....                                  | 54.11 |
| Tetanops Fallén, 1820 .....                                    | 54.12 |
| Tetrapleura Schiner, 1868 .....                                | 54.12 |
| thomae Loew, 1868, Euxesta .....                               | 54.20 |
| tigrina (Blanchard), 1967 (Proterpnomyia), Terpnomyia .....    | 54.11 |
| townsendi Hendel, 1914, Pterocerina .....                      | 54.10 |
| trifasciata Hendel, 1909, Pterocerina .....                    | 54.10 |
| tripustulata Enderlein, 1921, Xanthacrona .....                | 54.12 |
| tuberosa Cresson, 1908, Xanthacrona .....                      | 54.12 |
| Ulidia (unrecognized spp.) .....                               | 54.23 |
| Ulidiinae .....  | 54.13 |
| Ulivellia Epeiser, 1929 .....                                  | 54.22 |
| undulata Cresson, 1906, Pterocalla .....                       | 54.8  |
| undulata Hendel, 1913, Euxesta .....                           | 54.20 |
| undulata Hendel, 1914, Ophthalmoptera .....                    | 54.6  |
| varipes (Loew), 1866 (Eumetopia), Eumetopiella .....           | 54.15 |
| Vespomima Enderlein, 1927 .....                                | 54.12 |
| vitaleis Pazos, 1914, Ortalis (Nomen nudum) .....              | 54.23 |
| vittifrons Wulp, 1899, Tetanops .....                          | 54.12 |
| wettsteini Hendel, 1909, Euxesta .....                         | 54.20 |
| Willineria Blanchard, 1951 .....                               | 54.21 |
| wytsmani Hendel, 1910, Acrosticta .....                        | 54.13 |
| Xanthacrona Wulp, 1899 .....                                   | 54.12 |
| Xanthocrona, emendation or error for Xanthacrona .....         | 54.12 |
| xanthomera Steyskal, 1966, Pareuxesta .....                    | 54.21 |
| ypsilon Enderlein, 1921, Xanthacrona .....                     | 54.12 |
| Zacompsia Coquillett, 1901 .....                               | 54.22 |
| zebra (Hendel), 1909, (Myennis), Neomyennis .....              | 54.6  |
| zikani (Capoor), 1954 (Ophryoterpnomyia), Plagiocephalus ..... | 54.22 |







SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

55

## FAMILY PLATYSTOMATIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D.C.*

The Platystomatidae are not well represented in the Americas; their main areas of distribution, with a very large number of species, lie in the tropics of the Old World. Of the two chief American genera, the one, *Rivellia*, is worldwide and the other, *Senopterina*, is restricted to the Americas, as are the remaining American genera.

Very little is known of the biology of the family.

The great pioneering works of Hendel (1914a, 1914b), are still the most important works of reference on the family. Steyskal (1961b) gave a key to the genera of North America, including all of the American genera except *Himeroessa*.

## Genus AMPHICNEPHES Loew

AMPHICNEPHES Loew, 1873:83. Type-species, *pertusus* Loew (mon.) = *pulus* (Wiedemann).

STELLATUS Wulp, 1899:390, pl. 10, fig. 23. Type-locality: Mexico, Guerrero, Chilpancingo; northern Yucatán. Distr. — Mexico to Panama, Colombia.

## Genus HIMEROESSA Loew

HIMEROESSA Loew, 1873:85. Type-species, *pretiosa* Loew (mon.).

*Illiothrix* Enderlein, 1924:114. Type-species, *trabeata* Enderlein (orig. des.) = *pretiosa* Loew. N. SYN.

PRETIOSA Loew, 1873:85, pl. 8, fig. 2. Type-locality: West Indies, "Cuba". Distr. — West Indies (Cuba).

*trabeata* Enderlein, 1924:114 (*Illiothrix*). Type-locality: "Cuba". N. SYN.

## Genus RIVELLIA Robineau-Desvoidy

RIVELLIA Robineau-Desvoidy, 1830:729. Type-species, *herbarum* Robineau-Desvoidy (Rondani, 1869:8, 28) = *syngessiae* (F.).

CONNECTA Wulp, 1898:383, pl. 10, fig. 12. Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico.

- CURVATA Hendel, 1914a:179; 1914b: pl. 2, fig. 27. Type-locality: Peru, Callanga. Distr. — Peru.
- FLEXUOSA Wulp, 1898:383, pl. 10, fig. 13. Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico.
- LIGATA (Say), 1830:183 (*Ortalis*). Type-locality: "Mexico". Unrecognized.
- LONGICORNIS Wulp, 1898:384, pl. 10, fig. 15. Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico.
- MICANS Loew, 1873:94. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico (northern Sonora). Ref. — Namba, 1956:54-56, 84, figs. 10 a-d.
- OCCULTA Wulp, 1898:382, pl. 10, fig. 8. Type-locality: Mexico, Guerrero, Chilpancingo and Omilteme. Distr. — U.S.A., Mexico, Guatemala, Costa Rica. Ref. — Namba, 1956:37-38, 82, figs. 8, d-g.
- PILOSULA Wulp, 1898:384, pl. 10, fig. 14. Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico, El Salvador, Costa Rica.
- SUBMETALLICA Wulp, 1898:382, pl. 10, fig. 10. Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico.
- TERSA Namba, 1956:31-32, 82, figs. 8, a-c. Type-locality: U.S.A., New Mexico, Mountain Park. Distr. — U.S.A., Mexico (Chihuahua, Veracruz).
- WULPIANA Hendel, 1914a:176. Type-locality: Mexico, Veracruz, Orizaba. Distr. — Mexico, Costa Rica. Ref. — Wulp, 1898:383, pl. 10, fig. 11 (as *conjuncta* Loew, misidentification).
- vanderwulpi* Cresson, 1924:225. Type-locality: Mexico, Guadalajara.

#### Genus SENOPTERINA Macquart

- SENOPTERINA Macquart, 1835:453. Type-species, *Dacus brevipes* Fabricius (mon.).
- Stenopterina*, emend.
- Bricinnia* Walker, 1861:324. Type-species, *flexivitta* Walker (mon.).
- Bricinniella* Giglio-Tos, 1893:13; 1895:45. Type-species, *cyanea* Giglio-Tos (mon.).
- ALLIGATA Wulp, 1898:381, pl. 10, fig. 7. Type-locality: Mexico, Paso del Macho. Distr. — Mexico.
- BREVIPES (Fabricius), 1805:272 (*Dacus*). Type-locality: "South America". Distr. — Mexico, Trinidad, Guyana, Colombia, Brazil, Peru, Bolivia, Paraguay. Ref. — Shewell, 1962:194, figs. 1-3, 13.
- splendens* Macquart, 1846:337 (209), pl. 18, fig. 8 (*Herina*). Type-locality: "Colombia".
- angusta* Walker, 1852:374 (*Herina*). Type-locality: "Brazil".
- CHIRIQUIANA Hennig, 1940:317, pl. 24, fig. 11. Type-locality: Panama, Chiriqui, Bajo Boquete (as Bouqueti). Distr. — Panama.
- CYANEA (Giglio-Tos), 1893:13; 1895 (*Bricinniella*). Type-locality: Mexico, Cuernavaca. Distr. — Mexico, Guatemala, El Salvador. Ref. — Hendel, 1914a:110; 1914b: pl. 6, fig. 111.
- DISTINCTA (Walker), 1849:806 (*Chromatomyia*). Type-locality: Uruguay, Montevideo. Unrecognized.

- FLEXIVITTA (Walker), 1861:324 (*Bricinnia*). Type-locality: "Mexico". Distr. — Mexico, Costa Rica.
- FUSCICOSTA Hendel, 1914a:107. Type-locality: Bolivia, Yungas de la Paz. Distr. — Bolivia.
- INFUSCATA Hendel, 1914a:106. Type-locality: Bolivia, Songo. Distr. — Bolivia.
- MACULARIS (Fabricius), 1805:275 (*Dacus*). Type-locality: "South America". Distr. — Panama, Trinidad, Guyana, Brazil, Peru, Bolivia. Ref. — Hendel, 1914a:108-109; 1914b: pl. 6, figs. 109-110.
- violacea* Macquart, 1848:222 (62), pl. 7, fig. 3 (*Ortalis*). Type-locality: "Rio Negro".
- bicolor* Walker, 1849:805 (*Chromatomyia*). Type-locality: Brazil, Pará.
- MEXICANA (Macquart), 1843:365 (208), pl. 29, fig. 2 (*Herina*). Type-locality: "Mexico". Distr. — Mexico (southern part), Nicaragua. Ref. — Shewell, 1962:199-200, figs. 8, 9, 16, 17. Lapsus: *metallica* (Loew, 1873).
- OCHRIPENNIS Enderlein, 1924:113. Type-locality: Peru, Cuzco, Callanga, Pinipini valley. Distr. — Peru.
- VERRUCOSA Hendel, 1914a:106. Type-locality: Bolivia, Songo. Distr. — Peru, Bolivia.
- var. FLAVESCENS Enderlein, 1924:113. Type-locality: Peru, Cuzco, Callanga, Pinipini valley. Distr. — Peru.
- var. NIGRIPES Enderlein, 1924:113. Type-locality: "Bolivia". Distr. — Bolivia.

#### Unrecognized species of SENOPTERINA

- VIOLACEA (Macquart), 1843:364 (207), pl. 29, fig. 1 (*Herina*). Type-locality: Brazil, environs of Pará. Quite different from *Ortalis violacea* Macquart, 1848, synonym of *Senopterina macularis* (Fabricius).

#### LITERATURE CITED

See N° 53, Family Richardiidae.

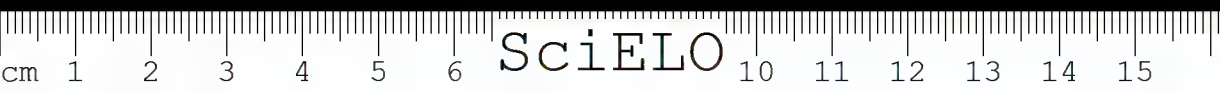
#### INDEX

|  |      |
|--|------|
| <i>alligata</i> Wulp, 1898, <i>Senopterina</i> .....                               | 55.2 |
| <i>Amphicnephes</i> Loew, 1873 .....   | 55.1 |
| <i>angusta</i> (Walker), 1852 ( <i>Herina</i> ), <i>Senopterina</i> .....          | 55.2 |
| <i>bicolor</i> (Walker), 1849 ( <i>Chromatomyia</i> ), <i>Senopterina</i> .....    | 55.3 |
| <i>brevipes</i> (Fabricius), 1805 ( <i>Dacus</i> ), <i>Senopterina</i> .....       | 55.2 |
| <i>Bricinnia</i> Walker, 1861 .....  | 55.2 |
| <i>Bricinniella</i> Giglio-Tos, 1893 .....   | 55.2 |
| <i>chiriquiana</i> Hennig, 1940, <i>Senopterina</i> .....                          | 55.2 |
| <i>conjuncta</i> Loew — see <i>wulpiana</i> .....                                  |      |
| <i>connecta</i> Wulp, 1898, <i>Rivellia</i> .....                                  | 55.1 |
| <i>curvata</i> Hendel, 1914, <i>Rivellia</i> .....                                 | 55.2 |
| <i>Cyanea</i> (Giglio-Tos), 1893 ( <i>Bricinniella</i> ), <i>Senopterina</i> ..... | 55.2 |

55.3



|  |      |
|--|------|
| <i>distincta</i> (Walker), 1849 ( <i>Chromatomyia</i> ), <i>Senopterina</i> .....                        | 55.2 |
| <i>flavescens</i> Enderlein, 1924, <i>Senopterina</i> .....  | 55.3 |
| <i>flexivitta</i> (Walker), 1861 ( <i>Bricinnia</i> ), <i>Senopterina</i> .....                          | 55.3 |
| <i>flexuosa</i> Wulp, 1898, <i>Rivellia</i> .....  | 55.2 |
| <i>fuscicosta</i> Hendel, 1914, <i>Senopterina</i> .....   | 55.3 |
| <i>grandis</i> (Schiner), 1868 ( <i>Senopterina</i> ; "Chile"), Indo-australian sp.<br>of <i>Duomyia</i> |      |
| <i>Himeroessa</i> Loew, 1873 .....   | 55.1 |
| <i>Illiothrix</i> Enderlein, 1924 .....  | 55.1 |
| <i>infuscata</i> Hendel, 1914, <i>Senopterina</i> .....  | 55.3 |
| <i>ligata</i> (Say), 1830 ( <i>Ortalis</i> ), <i>Rivellia</i> .....                                      | 55.2 |
| <i>longicornis</i> Wulp, 1898, <i>Rivellia</i> .....   | 55.2 |
| <i>macularis</i> (Fabricius), 1805 ( <i>Dacus</i> ), <i>Senopterina</i> .....                            | 55.3 |
| <i>metallica</i> , lapsus for <i>mexicana</i> , q.v.   |      |
| <i>mexicana</i> (Macquart), 1843 ( <i>Herina</i> ), <i>Senopterina</i> .....                             | 55.3 |
| <i>micans</i> Loew, 1873, <i>Rivellia</i> .....  | 55.2 |
| <i>nigripes</i> Enderlein, 1924, <i>Senopterina</i> .....  | 55.3 |
| <i>occulta</i> Wulp, 1898, <i>Rivellia</i> .....   | 55.2 |
| <i>ochripennis</i> Enderlein, 1924, <i>Senopterina</i> .....   | 55.3 |
| <i>pilosula</i> Wulp, 1898, <i>Rivellia</i> .....  | 55.2 |
| <i>pretiosa</i> Loew, 1873, <i>Himeroessa</i> .....  | 55.1 |
| <i>Rivellia</i> Robineau-Desvoidy, 1830 .....  | 55.1 |
| <i>Senopterina</i> Macquart, 1835 .....  | 55.2 |
| <i>splendens</i> (Macquart), 1846 ( <i>Herina</i> ), <i>Senopterina</i> .....                            | 55.2 |
| <i>stellatus</i> Wulp, 1899, <i>Amphicnephes</i> .....   | 55.1 |
| <i>Senopterina</i> , emendation for <i>Senopterina</i> , q.v.  |      |
| <i>submettallica</i> Wulp, 1898, <i>Rivellia</i> .....   | 55.2 |
| <i>tersa</i> Namba, 1956, <i>Rivellia</i> .....  | 55.2 |
| <i>trabeata</i> Enderlein, 1924 ( <i>Illiothrix</i> ), <i>Himeroessa</i> .....                           | 55.1 |
| <i>vanderwulpi</i> Cresson, 1924, <i>Rivellia</i> .....  | 55.2 |
| <i>verrucosa</i> Hendel, 1914, <i>Senopterina</i> .....  | 55.3 |
| <i>violacea</i> (Macquart), 1843 ( <i>Herina</i> ), <i>Senopterina</i> , unrecognized ...                | 55.3 |
| <i>violacea</i> (Macquart), 1848 ( <i>Ortalis</i> ), <i>Senopterina</i> .....                            | 55.3 |
| <i>wulpiana</i> Hendel, 1914, <i>Rivellia</i> .....  | 55.2 |



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

56

FAMILY PYRGOTIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.*  
*U. S. Department of Agriculture*  
*Washington, D. C.*

The Pyrgotidae are most closely related to the Tephritidae, but rather than being plant feeders they are as far as known parasites of beetles of the family Scarabaeidae. The species are mostly of nocturnal habit and are attracted to lights, as are their hosts. Their distribution is worldwide, and they are seemingly more abundant in the tropics.

The Neotropical species have been revised in large part by Aczél (1956). The general list by Hendel (1908b) is now seriously out-of-date, but the only other complete list is a bare checklist by Bezzi (1929).

Subfamily LOCHMOSTYLIINAE

Genus FURCISETA Aczél

FURCISETA Aczél, 1955: (v. 6) 23. Type-species, *Ramuliseta plaumanni* Hennig (orig. des.).

PLAUMANNI (Hennig), 1952:604, figs. 1-9 (*Ramuliseta*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil.

Genus LOCHMOSTYLIA Hendel

LOCHMOSTYLIA Hendel, 1934:143. Type-species, *borgmeieri* Hendel (orig. des.).

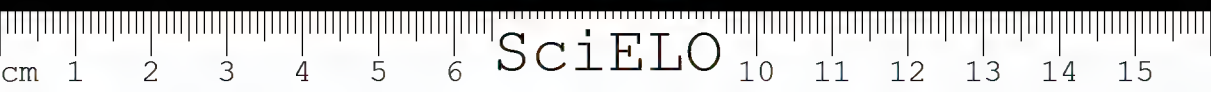
*Lochnostylia*, misspelling.

*Travassomyia* Lopes, 1935:248. Type-species, *borgmeieri* Lopes (not Hendel; orig. des.) = *lopesi* Keiser.

BORGMEIERI Hendel, 1934:143. Type-locality: Costa Rica, 8 km west of San José, Farm La Caja (originally cited erroneously as "Brasilien"). Distr. — Costa Rica. Ref. — Keiser, 1951:114, fig. 1.

LOPESI Keiser, 1951:118. Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.

*borgmeieri* Lopes, 1935:248, figs. 1-9 (*Travassomyia*; preocc. Hendel, 1934). Type-locality: Brazil, Rio de Janeiro, Petrópolis.



## Genus TAUROSCYPSON Curran

- TAUROSCYPSON Curran, 1934:419. Type-species, *guiana* Curran (orig. des.). This name was stated by its author to have been formed from Greek *tauros* and *kyon*; it is therefore badly misconstrued and should be of masculine gender. It seems best to consider it as a neologism of feminine gender, as Aczél has treated it.
- ANDINA Aczél, 1956: (v. 6) 23, figs. 93-96, pl. 5, fig. T (p. 24); specific characters also cited in v. 4: 170-174. Type-locality: Bolivia, Sara, Santa Cruz. Distr. — Peru, Bolivia.
- GUIANA Curran, 1934:419, figs. 51-54. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana.

## Subfamily PARATOXURINAE

### Genus DESCOLEIA Aczél

- DESCOLEIA Aczél, 1956: (v. 5) 3. Type-species, *teretrura* Aczél (orig. des.).
- TERETRURA Aczél, 1956: (v. 5) 4, figs. 1-10, pl. 1, fig. B; specific characters also cited in v. 4:167-174. Type-locality: Argentina, Tucumán, San Pedro de Colalao. Distr. — Argentina.

## Subfamily PYRGOTINAE

### Tribe PYRGOTINI

### Genus ANAPYRGOTA Steyskal, new

- ANAPYRGOTA Steyskal, new genus. Type-species, *Apyrgota personata* Lutz & Lima. The genus *Apyrgota* Hendel, 1908, does not occur in the Americas. Examination of a specimen of *A. personata* reveals that it requires a new genus which may be distinguished from *Apyrgota* and other genera by the following characters: vein  $R_4+5$  bare; vein  $Cu_2$  bent into cell  $Cu_2$ , which is drawn out posteriorly into a point; face without median keel; alula well developed; postscutellum lacking; wing hyaline with zigzag banded pattern; costa distinct to complete vein  $M_1$  (4th vein). The last three characters distinguish this genus from *Carrerapyrgota*.
- PERSONATA (Lutz & Lima), 1918:11, pl. 2, fig. 26 (*Apyrgota*). Type-locality: Brazil, Pernambuco, Palmares. Distr. — Panama (Río Indio, in USNM), Brazil.

### Genus CARRERAPYRGOTA Aczél

- CARRERAPYRGOTA Aczél, 1956: (v. 4) 169, 182, (v. 5) 16, (v. 6) 20. Type-species, *miliaria* Aczél (orig. des.).
- MILIARIA Aczél, 1956: (v. 6) 21, figs. 84-92, pl. 5, fig. S (p. 24); specific characters also cited in v. 4:167-174. Type-locality: Brazil, Mato Grosso, Salobra. Distr. — Brazil, Paraguay, Argentina.

### Genus IDIOPYRGOTA Aczél

- IDIOPYRGOTA Aczél, 1956: (v. 5) 15, (v. 6) 16. Type-species, *setiventris* Aczél (orig. des.).

SETIVENTRIS Aczél, 1956: (v. 6) 16, figs. 78-83, pl. 5, fig. R (p. 24); specific characters also cited in v. 4:167-174. Type-locality: Brazil, Mato Grosso, Salobra. Distr. — Brazil.

#### Genus LEPTOPYRGOTA Hendel

LEPTOPYRGOTA Hendel, 1914:110. Type-species, *amplipennis* Hendel (orig. des.).

*Porpedrum* Enderlein, 1942:104, 112. Type-species, *fibulatum* Enderlein (orig. des.).

ALBITARSIS Aczél, 1956: (v. 5) 42, figs. 28-31, pl. 2, fig. F (p. 28); specific characters cited also in v. 4:167-174. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.

AMPLIPENNIS Hendel, 1914:110, pl. 1, fig. 11. Type-locality: Bolivia, Yungas de la Paz. Distr. — Costa Rica, Bolivia.

ANNULPES Aczél, 1956: (v. 5) 46, figs. 37-42, pl. 2, fig. G (p. 28); specific characters cited also in v. 4:167-174. Type-locality: Argentina, Quebrada Latoma. Distr. — Argentina.

APILOSA Aczél, 1956: (v. 5) 51, figs. 45-47, pl. 2, fig. H (p. 28); specific characters cited also in v. 4:167-174. Type-locality: Argentina, Córdoba, Argüello. Distr. — Argentina.

COSTALIMAI Aczél, 1956: (v. 5) 54, figs. 53-56, pl. 3, fig. I (p. 60); specific characters also cited in v. 4:166-173. Type-locality: Brazil, Guanabara, Rio de Janeiro, Corcovado. Distr. — Brazil.

FIBULATA (Enderlein), 1942:113 (*Porpedrum*). Type-locality: Brazil, Santa Catarina, Teresópolis. Distr. — Brazil.

MEHELYI Aczél, 1956: (v. 5) 57, figs. 48-52, pl. 3, fig. J (p. 60); specific characters also cited in v. 4:166-173, fig. A (p. 170). Type-locality: Argentina, Tucumán, San Pedro de Colalao. Distr. — Argentina.

MINUTA Hennig, 1937:209. Type-locality: Argentina, Mendoza. Distr. — Argentina.

NIGRIFRONS Aczél, 1956: (v. 5) 63, figs. 32-36 (p. 45), pl. 3, fig. L (p. 60); specific characters cited also in v. 4:166-174. Type-locality: Argentina, Tucumán, Tafi del Valle. Distr. — Argentina.

PULCHRA Aczél, 1956: (v. 5) 66, figs. 57-60, pl. 4, fig. M (v. 6, p. 8); specific characters cited also in v. 4:167-173. Type-locality: Argentina, Tucumán, Siambon. Distr. — Argentina.

SAHLBERGIANA Frey, 1918:27. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.

UNDULATA Becker, 1919:197. Type-locality: Ecuador, Santo Domingo de los Colorados. Distr. — Ecuador.

#### Genus LOPADOPS Enderlein

LOPADOPS Enderlein, 1942:103, 111. Type-species, *nigerrimus* Enderlein (orig. des.).

NIGERRIMUS Enderlein, 1942:112. Type-locality: Argentina, Tucumán. Distr. — Argentina.



## Genus NEOPYRGOTA Hendel

NEOPYRGOTA Hendel, 1934:144. Type-species, *calcarata* Hendel (orig. des.).

### Subgenus NEOPYRGOTA Hendel

CALCARATA Hendel, 1934:144, figs. 1-2. Type-locality: "Paraguay". Distr. — Brazil, Paraguay.

FALCITEREBRA Hennig, 1936:252. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.

*unappendix* Hennig, 1936:253. Type-locality: Brazil, São Paulo.

*uniappendix*, lapsus.

### Subgenus ALLOPYRGOTA Aczél

*Neopyrgota*, subg. ALLOPYRGOTA Aczél, 1956: (v. 6) 2, 4. Type-species, *picea* Hennig (orig. des.). Note: The invalid "new genus-new species" combination *Neopyrgota* (*Allopyrgota*) *hennigi* n. sp. was made in v. 4:174.

APPENDICULATA Hennig, 1936:252. Type-locality: Brazil, São Paulo, Alto da Serra. Distr. — Brazil, Argentina.

HENNIGI Aczél, 1956: (v. 6) 12, figs. 75-77; pl. 4, fig. P (p. 8); specific characters also cited in v. 4:167-174. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.

MAJOR Hennig, 1936:251. Type-locality: Costa Rica, San José. Distr. — Costa Rica.

PICEA Hennig, 1936:250. Type-locality: Costa Rica, 8 km west of San José, Farm La Caja. Distr. — Costa Rica.

## Genus PYRGOTA Wiedemann

PYRGOTA Wiedemann, 1820:580. Type-species, *undata* Wiedemann (mon.). ILONA Aczél, 1956: (v. 5) 18, figs. 11-15, pl. 1, fig. C (p. 7); specific characters also cited in v. 4:166-173. Type-locality: Argentina, Salta, Agua Blanca, Orán. Distr. — Argentina.

LONGIPES Hendel, 1908a:145. Type-locality: Brazil, Rio Grande do Sul. Distr. — Guatemala, Brazil.

LUGENS Wulp, 1898:378, pl. 10, figs. 1, 1a. Type-locality: Guatemala, Vera Paz, Panima. Distr. — Guatemala.

## Genus STENOPYRGOTA Malloch

STENOPYRGOTA Malloch, 1929:259. Type-species, *mexicana* Malloch (orig. des.).

CRASSITIBIA Aczél, 1956: (v. 5) 26, figs. 21-27, pl. 2, fig. E (p. 28); specific characters also cited in v. 4:167-173. Type-locality: Argentina, Tucumán, Cerro de San Javier. Distr. — Argentina.

MEXICANA Malloch, 1929:260. Type-locality: Mexico, Chihuahua, Sierra Madre, Río Piedras Verdes, 7300 feet. Distr. — Mexico.

## Genus STIROTHRINAX Enderlein

STIROTHRINAX Enderlein, 1942:110, 162. Type-species, *cribratus* Enderlein (orig. des.).

- CRIBRATUS Enderlein, 1942:110. Type-locality: Mexico, San Luis Potosí, Rascon (as Rascion). Distr. — Mexico.  
 KNUDSENI Mayer, 1953:221. Type-locality: "Costa Rica". Distr. — Costa Rica.

#### Genus TROPIDOTHRINAX Enderlein

- TROPIDOTHRINAX Enderlein, 1942:105, 115. Type-species, *boliviensis* Enderlein (orig. des.).  
 BOLIVIENSIS Enderlein, 1942:116. Type-locality: Bolivia, Sara. Distr. — Bolivia.

#### Tribe TERETRURINI

#### Genus PYRGOTOSOMA Malloch

- PYRGOTOSOMA Malloch, 1933:252. Type-species, *flavidum* Malloch (orig. des.).  
 FLAVIDUM Malloch, 1933:253, figs. 52-53. Type-locality: Argentina, Bariloche. Distr. — Argentina (Bariloche, Lago Nahuel Huapi, Lago Gutiérrez), Chile (Angol).

#### Genus TERETRURA Bigot

- TERETRURA Bigot, 1885: clxv. Type-species, *flaveola* Bigot (mon.).  
 FLAVEOLA Bigot, 1885: clxv. Type-locality: "Chile". Distr. — Chile.  
 SHANNONI Malloch, 1933:250. Type-locality: Chile, Puerto Blest. Distr. — Chile.  
 TINCTIPENNIS Malloch, 1933:251. Type-locality: Chile, Casa Pangue. Distr. — Argentina (Bariloche), Chile.

#### UNRECOGNIZED TAXA

#### Genus CTENOSTYLUM Macquart

- CTENOSTYLUM Macquart, 1851:140 (separate, p. 167). Type-species, *rufum* Macquart (mon.).  
 RUFUM Macquart, 1851:141 (separate, p. 168), pl. 25, fig. 1. Type-locality: Brazil, "banks of Amazon River". It is very likely that this is the male of an unrecovered species of Lochmostyliinae, but there are disturbing discrepancies in the description. If it is indeed eventually found to be a Lochmostyliine, it will likely preoccupy one of the presently recognized genera, and the family Ctenostylidae, erected by Bigot in 1882: 21, will become the prior name for the subfamily. Ref. — Lopes, 1935:250.

#### LITERATURE CITED

ACZÉL, M.

1956. Revisión parcial de las Pyrgotidae neotropicales y antárticas, con sinopsis de los géneros y especies (Diptera, Acalyptratae). *Rev. Brasil. Ent.* 4:161-184, 5:1-70, 6:1-38.

BEZZI, M.

1929. Australian Pyrgotidae (Diptera). *Proc. Linn. Soc. N. S. Wales* 54:1-20.

BIGOT, J. M. F.

1882. Diptères nouveaux ou peu connus. 19e. partie. *Ann. Soc. Ent. France* 1882:5-22.  
1885. (Note in report of meeting). *Bull. Soc. Ent. France* 1885:clxv.

ENDERLEIN, G.

1942. Klassifikation der Pyrgotiden. *Sitzungsb. Ges. Naturf. Freunde Berlin* 2(1941):98-134.

FREY, R.

1918. Mitteilungen über südamerikanische Dipteren. *Öfv. Finska Vetensk. Soc. Förhandl.* 60(A):1-35, 1 pl.

HENDEL, F.

- 1908a. Acht neue Pyrgotinen (Dipt.). *Wien. Ent. Ztg.* 27:145-153.  
1908b. Diptera, Fam. Muscaridae, Subfam. Pyrgotinae. In P. Wytsman, ed.: *Genera Insectorum* 79:1-33, 1 pl.  
1914. Neue Beiträge zur Kenntnis der Pyrgotinen. *Arch. Naturg.* 79(A 11):77-117, 1 pl.  
1934. Uebersicht über die Gattungen der Pyrgotiden, nebst Beschreibung neuer Gattungen und Arten. *Encycl. Ent.* (B2, Diptera): 141-156.

HENNIG, W.

1936. Beiträge zur Systematik und Tiergeographie der Pyrgotiden. *Arb. Morphol. Taxon. Ent.*, Berlin-Dahlem 3:243-256.  
1937. Neue Pyrgotiden aus dem Deutschen Entomologischen Institut. *Arb. Morphol. Taxon. Ent.*, Berlin-Dahlem 4:207-209.  
1952. Bemerkenswerte neue Acalyptraten in der Sammlung des Deutschen Entomologischen Institutes (Diptera: Acalyptrata). *Beitr. Ent.* 2:604-618.

KEISER, F.

1951. Die Unterfamilie der Lochmostyliinae (Dipt., Pyrgotidae). *Mitteil. Schweiz. Ent. Ges. (Bull. Soc. Ent. Suisse)* 24:113-124.

LOPES, H. DE SOUZA

1935. Um novo genero de Diptera acalyptratae e considerações sobre a familia Ctenostylidae. *Arch. Inst. Biol. Veget.* 2:247-253.

LUTZ, A. & A. DA COSTA LIMA

1918. Contribuição para o estudo das Tripaneidas (moscas de frutas) brasileiras. *Mem. Inst. Oswaldo Cruz* 10:5-16.

MACQUART, J.

1851. Diptères exotiques nouveaux ou peu connus. Suite du 4e. supplément. *Mém. Soc. Nat. Sci. Agric. Arts Lille* 1850:134-294, pls. 15-28 (also separately published with different pagination).

MALLOCH, J. R.

1929. Exotic Muscaridae (Diptera). XXIV. *Ann. Mag. Nat. Hist.* (10)3:249-280.

1933. Acalyptrata, In *British Museum (Natural History): Diptera of Patagonia and South Chile*, part 6, fasc. 1:177-391, pls. 2-7.

MAYER, H.

1953. Zwei neue Pyrgotidae (Diptera acalyptratae). *Ann. Naturhist. Mus. Wien* 59:220-222.

WULP, F. M. VAN DER

1898. Group Ortalinae (part). In F. D. Godman & O. Salvin, eds.: *Biol. Centr.-Amer., Zool., Ins., Diptera* 2:377-384, pl. 10.

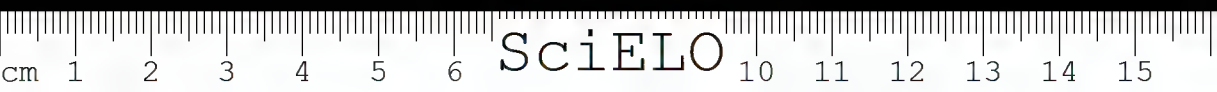
## INDEX

|  |      |
|--|------|
| albitarsis Aczél, 1956, Leptopyrgota .....                   | 56.3 |
| Allopyrgota Aczél, 1956 .....                                | 56.4 |
| amplipennis Hendel, 1914, Leptopyrgota .....                 | 56.3 |
| Anapyyrgota Steyskal, new .....                              | 56.2 |
| andina Aczél, 1956, Tauroscypson .....                       | 56.2 |
| annulipes Aczél, 1956, Leptopyrgota .....                    | 56.3 |
| appendiculata Hennig, 1936, Neopyrgota .....                 | 56.4 |
| apilosa Aczél, 1956, Leptopyrgota .....                      | 56.3 |
| Apyrgota Hendel, of Lutz & Lima .....                        | 56.2 |
| boliviensis Enderlein, 1942, Tropidothrinax .....            | 56.5 |
| borgmeieri Hendel, 1934, Lochmostyilia .....                 | 56.1 |
| borgmeieri (Lopes), 1935 (Travassomyia), Lochmostyilia ..... | 56.1 |
| calcarata Hendel, 1934, Neopyrgota .....                     | 56.4 |
| Carrerapyrgota Aczél, 1956 .....                             | 56.2 |
| costalimai Aczél, 1956, Leptopyrgota .....                   | 56.3 |
| crassitibia Aczél, 1956, Stenopyrgota .....                  | 56.4 |
| cribratus Enderlein, 1942, Stirothrinax .....                | 56.5 |
| Ctenostylum Macquart, 1851 .....                             | 56.5 |
| Descoleia Aczél, 1956 .....                                  | 56.2 |
| falciterebra Hennig, 1936, Neopyrgota .....                  | 56.4 |
| fibulata (Enderlein), 1942 (Porpedrum), Leptopyrgota .....   | 56.3 |
| flaveola Bigot, 1885, Teretrura .....                        | 56.5 |
| flavidum Malloch, 1933, Pyrgotosoma .....                    | 56.5 |
| Furcisetia Aczél, 1956 .....                                 | 56.1 |
| guiana Curran, 1934, Tauroscypson .....                      | 56.2 |
| hennigi Aczél, 1956, Neopyrgota .....                        | 56.4 |
| Idiopyrgota Aczél, 1956 .....                                | 56.2 |
| ilona Aczél, 1956, Pyrgota .....                             | 56.4 |
| knudseni Mayer, 1953, Stirothrinax .....                     | 56.5 |

56.7



|  |      |
|--|------|
| Leptopyrgota Hendel, 1914 .....                            | 56.3 |
| Lochmostylia Hendel, 1934 .....                            | 56.1 |
| Lochmostyliinae .....                                      | 56.1 |
| <i>Lochnostylia</i> , misspelling .....                    | 56.1 |
| longipes Hendel, 1908, Pyrgota .....                       | 56.4 |
| Lopadops Enderlein, 1942 .....                             | 56.3 |
| lopesi Keiser, 1951, Lochmostylia .....                    | 56.1 |
| lugens Wulp, 1898, Pyrgota .....                           | 56.4 |
| major Hennig, 1936, Neopyrgota .....                       | 56.4 |
| mehelyi Aczél, 1956, Leptopyrgota .....                    | 56.3 |
| mexicana Malloch, 1929, Stenopyrgota .....                 | 56.4 |
| miliaria Aczél, 1956, Carrerapyrgota .....                 | 56.2 |
| minuta Hennig, 1937, Leptopyrgota .....                    | 56.3 |
| Neopyrgota Hendel, 1934 .....                              | 56.4 |
| nigerrimus Enderlein, 1942, Lopadops .....                 | 56.3 |
| nigrifons Aczél, 1956, Leptopyrgota .....                  | 56.3 |
| Paratoxurinae .....  | 56.2 |
| personata (Lutz & Lima), 1918 (Apyrgota), Anapyrgota ..... | 56.2 |
| picea Hennig, 1936, Neopyrgota .....                       | 56.4 |
| plaumanni (Hennig), 1952 (Ramuliseta), Furcisetia .....    | 56.1 |
| <i>Porpedrum</i> Enderlein, 1942 .....                     | 56.3 |
| pulchra Aczél, 1956, Leptopyrgota .....                    | 56.3 |
| Pyrgota Wiedemann, 1830 .....                              | 56.4 |
| Pyrgotinae .....   | 56.2 |
| Pyrgotini .....  | 56.2 |
| Pyrgotosoma Malloch, 1933 .....                            | 56.5 |
| rufum Macquart, 1851, Ctenostylum .....                    | 56.5 |
| sahlbergiana Frey, 1918, Leptopyrgota .....                | 56.3 |
| setiventris Aczél, 1956, Idiopyrgota .....                 | 56.3 |
| shannoni Malloch, 1933, Teretrura .....                    | 56.5 |
| Stenopyrgota Malloch, 1929 .....                           | 56.4 |
| Stirothrinx Enderlein, 1942 .....                          | 56.4 |
| Tauroscypson Curran, 1934 .....                            | 56.2 |
| Teretrura Bigot, 1885 .....                                | 56.5 |
| teretrura Aczél, 1956, Descoleia .....                     | 56.2 |
| Teretrurini .....  | 56.5 |
| tinctipennis Malloch, 1933, Teretrura .....                | 56.5 |
| <i>Travassomyia</i> Lopes, 1935 .....                      | 56.1 |
| Tropidothrinx Enderlein, 1942 .....                        | 56.5 |
| unappendix Hennig, 1936, Neopyrgota .....                  | 56.4 |
| undulata Becker, 1919, Leptopyrgota .....                  | 56.3 |
| unappendix, lapsus .....                                   | 56.4 |



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

57

## FAMILY TEPHRITIDAE

(TRYPETIDAE, TRUPANEIDAE)

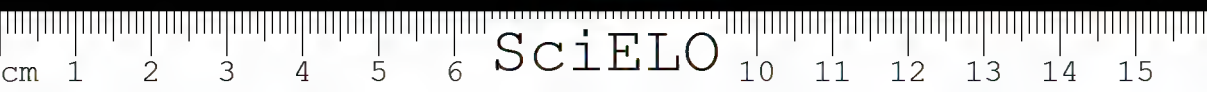
RICHARD H. FOOTE

*Entomology Research Division, Agr. Res. Serv.*  
*U. S. Department of Agriculture*  
*Washington, D. C.*

Of the more than 100 families of Diptera, the Tephritidae, or fruit flies, cause by far the most economic damage to plants. The larvae of the species of greatest concern to man develop in the flesh of fruits and are responsible for tremendous economic losses in commercial plantings the world around.

As far as is known, all the Neotropical Tephritidae deposit their eggs directly into living, healthy plant tissues. The larvae complete their development while feeding in healthy fruits or in developing ovaries and seeds of flowers (especially of composites), or while mining the stems and sometimes forming galls in the stems and roots. Pupation sometimes takes place within the plant tissue, but usually the larvae leave the plant to pupate just under the ground surface. We remain completely ignorant of the behavior and biological requirements of all but a handful of the economically important species; indeed, the host plants of more than three-fourths of the Neotropical tephritids have yet to be discovered.

The poverty of our knowledge about the systematics of this family as it occurs south of the United States nearly parallels the poverty of our knowledge of its biology. Until the turn of the century, the family was known only by a few isolated descriptions of species; most of them were placed in genera then in use in Europe. In 1900, Wulp attempted a taxonomic review of the known Mexican species — the first important revisionary work to appear. However, Hendel's (1914b) review of the Neotropical species comprises what is considered to be the true beginnings of taxonomy of the family in this geographic region. Between 1935 and 1958, Martin Hering described many Neotropical species and built the beginnings of our understanding of higher categories. It was primarily on this base that Aczél (1949a) compiled first his comprehensive catalog and from then until his untimely death a series of papers that examined critically the status of the known forms at all taxonomic levels. One of



the most significant works to appear was the revision of the genus *Anastrepha* by Alan Stone (1942a). This magnificent publication not only made possible for the first time the critical identification of adults in this all-important genus but also demonstrated the large gaps which he filled, and at the same time pointed, and still points, to the great amount of information yet to be gained about the remaining 80 or so Neotropical genera.

The present catalog can be said to summarize our present taxonomic information, therefore, at only the species level as it appears in the literature through 1966. It includes 818 specific and 117 generic names, of which 680 and 82, respectively, are regarded at the present time to be valid names of Neotropical Tephritidae. To validly assign many species to genera, especially those in the Tephritinae, and to discover a sensible generic phylogeny and suprageneric classification, we must carefully consider the genera and their parameters in all other geographic regions of the world, a task calling for the cooperation of tephritid taxonomists everywhere. Hence, the genera in this work are arranged alphabetically, with the species arranged in like manner within each genus.

Despite the shortcomings of our taxonomic knowledge, I offer a tentative arrangement of genera in subfamilies and tribes. The higher categories are approximately as represented by Hering (1947b) as modified by Aczél during the course of the latter's work among various Neotropical genera. A few of my own conclusions are incorporated in this synopsis, but I must remind the reader that the listings are highly tentative and are presented for the purpose of helping the user to group closely related genera rather than to define a suprageneric classification. The number in parentheses following each generic name represents the number of valid species presented in this catalog.

Subfamily DACINAE

*Pseudophorellia* (2)  
*Toxotrypana* (7)

Subfamily SCHISTOPTERINAE

*Neorhabdochaeta* (1)

Subfamily UROPHORINAE

*Neoacanthoneura* (1)  
*Urophora* (16)

Subfamily OEDASPINAE

Tribe CERATITINI

*Ceratitis* (1)

Tribe OEDASPINI

*Cecidocharella* (2)  
*Cecidochores* (11)  
*Ceratitoedaspis* (1)  
*Dracontomyia* (2)  
*Neorhagoletis* (1)  
*Procecidochores* (5)

Subfamily TRYPETINAE

Tribe ACANTHONEURINI

*Blepharoneura* (13)  
*Ceratodacus* (1)

*Hexachaeta* (25)  
*Hexaresta* (1)  
*Neohexachaeta* (1)

Tribe GASTROZONINI

*Molynocoelia* (1)

Tribe TRYPETINI

Group I (see Aczél, 1954a:71)

*Anastrepha* (150)  
*Cryptodacus* (3)  
*Lucumaphila* (12)  
*Phobema* (1)  
*Pseudodacus* (4)

Group II (see Aczél, 1951b:254)

*Cryptoplagia* (1)  
*Epochrinopsis* (2)  
*Gerrhoceras* (1)  
*Haywardina* (1)  
*Hetschkomyia* (1)  
*Oedicarena* (1)  
*Parastenopa* (6)  
*Polionota* (4)  
*Pyrgotoides* (1)  
*Rhagoletis* (15)  
*Rhagoletoides* (1)  
*Rhagoletotrypeta* (4)  
*Stoneola* (1)  
*Tomoplagia* (45)  
*Tomoplagiodes* (1)  
*Trypeta* (3)  
*Zonosemata* (4)

Subfamily TEPHRITINAE

Tribe DITRICHINI

*Acrotaenia* (9)  
*Acrotaeniacantha* (1)  
*Cryptotreta* (1)  
*Dictyotrypeta* (1)  
*Eutreta* (12)  
*Ictericoles* (5)  
*Ischryropteron* (1)  
*Paracantha* (9)  
*Polymorphomyia* (3)  
*Pseudentreta* (10)  
*Rhachiptera* (4)  
*Strobelia* (7)



Tribe TEPHRITINI

Group I (see Aczél, 1953a:147)

*Acicrura* (1)  
*Celidosphenella* (2)  
*Chrysaciura* (1)  
*Lilloaciura* (1)  
*Pseudoedaspis* (3)  
*Pseudopolionota* (1)  
*Rhithrum* (2)  
*Xanthaciura* (15)

Group II (see Aczél, 1953a:104)

*Acinia* (9)  
*Dioxyna* (6)  
*Dyseuaresta* (9)  
*Euaresta* (6)  
*Euarestoides* (4)  
*Lamproxyna* (2)  
*Lamproxynella* (6)  
*Melanotrypana* (1)  
*Neotephritis* (9)  
*Paroxyna* (22)  
*Plaumannimyia* (4)  
*Protensina* (3)  
*Tephritis* (11)  
*Tetreuaresta* (17)  
*Trupanea* (58)  
*Trypanaresta* (8)

Unplaced Tephritini (20)

Unplaced genera

*Baryplegma* (2)  
*Euarestopsis* (1)  
*Hamouchaeta* (1)  
*Homeothrix* (1)  
*Ostracocoelia* (1)  
*Pseudacrotaenia* (10)

Unplaced species of Tephritidae (26)

Genus ACINIA Robineau-Desvoidy

ACINIA Robineau-Desvoidy, 1830:775. Type-species, *jaceae* Robineau-Desvoidy (Rondani, 1871:4) = *corniculata* (Zetterstedt).

Ref. — Aczél, 1958 (rev.).

AURATA Aczél, 1958:85, figs. 1-10, pl. 1, A (head, palpus, antenna, ♀ abdomen, ♂ genitalia, ovipositor, wing). Type-locality: Argentina. Formosa, Pirané. Distr. — Argentina (Formosa, Salta, Santa Fe, Tucumán, Jujuy).

- FUCATA (Fabricius), 1794:359 (*Musca*). Type-locality: "Americae meridionalis insulae". Distr. — Argentina (Mendoza, Salta), Chile (Quilpic, Marga-Marga). Ref. — Aczél, 1958:90, figs. 22-27, pl. 1, B (head, male genitalia, ♀ abdomen, ovipositor, wing).
- tessariae* Kieffer & Jörgenson, 1910:439, fig. 60 (wing) (*Urophora*). Type-locality: Argentina, Mendoza, Chacras de Coria, Pedregal, La Paz.
- HENDELI Aczél, 1958:92, pl. 1, C (wing). Type-locality: Chile, Río Aconcagua. Distr. — Chile (Río Aconcagua).
- fucata* Fabricius of Hendel, 1914b: pl. 3, fig. 56 (wing).
- ICA Hering, 1941a:151, pl. 1, fig. 3 (wing). Type-locality: Peru, Ica. Distr. — Peru (Ica).
- MALLOCHI Aczél, 1958:93, figs. 11-15, pl. 1, D (head, ♀ abdomen, ovipositor, wing). Type-locality: Argentina, Mendoza, Chacheuta. Distr. — Argentina (Mendoza), Chile (Santiago, La Malta, Arica, Parca, Parapasá, Iquique).
- fucata* Fabricius of Malloch, 1933:277.
- fucata* Fabricius of Stuardo, 1946:137.
- OBSCURA Aczél, 1958:97, fig. 16, pl. 2, F (head, wing). Type-locality: Argentina, Entre Rios, La Paz, on an island of the Paraná R. Distr. — Argentina (Salta, Entre Rios).
- PERUANA Aczél, 1958:98, figs. 17-19, pl. 2, F (head, ♀ abdomen, wing). Type-locality: Peru, Moqueque, Estuguina Valley. Distr. — Peru (Moqueque).
- PICTURATA (Snow), 1894:173 (*Tephritis*). Type-locality: U.S.A., Florida. Distr. — U.S.A., Mexico to Guatemala, West Indies, Bahamas Is., introduced to and established in Hawaii to control *Eupatorium*. Refs. — Aczél, 1958:101, figs. 7-10, pl. 2, G (head, palpus, ♀ abdomen, wing); Foote, 1964a:84.
- maculipennis* Cole, 1923:473, fig. 11 (wing) (*Baryplegma*). Type-locality: Gulf of California, Cerralbo I.
- fucata*, North American authors, not Fabricius.
- RETICULATA Aczél, 1958:103, figs. 20, 21, pl. 2, H (head, ♀ abdomen, wing). Type-locality: Peru, Río Lurín, vicinity of Lima. Distr. — Peru (Lima).

#### Genus ACIURINA Curran

- ACIURINA Curran, 1932:9. Type-species, *trixa* Curran (orig. des.).  
*Aciura*, authors (part).  
*Tephrella*, authors.
- MEXICANA (Aczél), 1953a:194, figs. 58, 59, pl. 8, Y (head, ♂ genitalia, wing) (*Tephrella*). Type-locality: Mexico, Nogales. Distr. — Mexico (Nogales).

#### Genus ACROTAENIA Loew

- ACROTAENIA Loew, 1873:274. Type-species, *Trypeta testudinea* Loew (orig. des.).
- IMOX Bates, 1934:11, fig. 2 (wing). Type-locality: Costa Rica, Higuito, San Mateo. Distr. — Panama (Patilla Point and Ancon, Canal Zone), Costa Rica, Trinidad (San Fernandez).

- LATIPENNIS (Wiedemann), 1830:496 (*Trypeta*). Type-locality: "Brazil".  
Distr. — Brazil (Bahia). Ref. — Foote, 1964b:318.
- argus* Walker, 1849:1033 (*Trypeta*). Type-locality: Brazil, Bahia.
- OTOPAPPI Doane, 1899:183, pl. 3, fig. 8 (wing). Type-locality: "Mexico".  
Distr. — Mexico. Ref. — Foote, 1966a:124.
- PERTINAX Bates, 1934:12, fig. 3 (wing). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil (Mato Grosso).
- PLAUMANNI Hering, 1938a:188, fig. 2 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- SPADIX Bates, 1934:10, fig. 1 (wing). Type-locality: Dominican Republic, Haiti. Distr. — Cuba, Haiti, Dominican Republic.
- testudinea* Loew of Bates, 1933a:164.
- TARSATA Wulp, 1899:414, pl. 12, fig. 10 (wing). Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:242.
- TESTUDINEA (Loew), 1873:272, pl. 2, fig. 13 (wing) (*Trypeta*). Type-locality: "Cuba". Distr. — U.S.A., Cuba, Puerto Rico, Dominican Republic. Ref. — Foote, 1960d:107, fig. 1 (wing).
- TRISIGNATA Foote, 1960b:87, fig. 1 (wing). Type-locality: Bahamas Is., Andros I., Fresh Creek. Distr. — Bahamas Is. (Andros I.).

#### Genus ACROTAENIACANTHA Hering

- ACROTAENIACANTHA Hering, 1939:188. Type-species, *radiosa* Hering (orig. des.).
- RADIOSA Hering, 1939:189, fig. 25 (wing). Type-locality: "Venezuela".  
Distr. — Venezuela.

#### Genus ANASTREPHA Schiner

- ANASTREPHA Schiner, 1868:263. Type-species, *Dacus serpentinus* Wiedemann (orig. des.).
- Acrotoxa* Loew, 1873:227. Type-species, *Dacus fraterculus* Wiedemann (Bezzi, 1909:280).
- Instrypeta* Herrera, Rangel & Barreda, 1900:5. *Nomen nudum*.

The work of Stone (1942a) mentioned in the introduction to this catalog is responsible for our knowledge of so many species. The genus, along with *Ceratitis*, is the most destructive of all the Neotropical genera to commercial plantings, especially of citrus.

Refs. — Greene, 1934 (revision); Stone, 1942a (revision); Baker et al., 1944 (biology, Mexican species).

- ACRIS Stone, 1942a:77, fig. 15, B, pl. 15, D (ovipositor, wing). Type-locality: Panama, Canal Zone, Balboa. Distr. — Panama (Canal Zone, El Cermeño), Venezuela.
- ACZELI Blanchard, 1961:305, figs. 13a-b (wing, ovipositor). Type-locality: Argentina, Tucumán. Distr. — Argentina (Tucumán).
- ALVEATA Stone, 1942a:72, fig. 14, A, pl. 14, D (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (Balboa, Canal

- Zone; El Cermeño, La Campana), Venezuela (El Valle), Argentina (La Rioja). Ref. — Blanchard, 1961:324, figs. 28a-b (wing, ovipositor).
- ALVEATOIDES Blanchard, 1961:322, figs. 27a-b (wing, ovipositor). Type-locality: Argentina, Córdoba. Distr. — Argentina (Córdoba).
- AMNIS Stone, 1942a:88. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil (Rio de Janeiro, Itatiaia).  
*consobrina* Loew of Lima, 1934a:532 (part).
- ANDUZEI Stone, 1942b:302, figs. 2, 12 (ovipositor, wing). Type-locality: Venezuela, Carabobo, San Esteban. Distr. — Venezuela (Carabobo).
- ANOMALA Stone, 1942a:29, fig. 2, D, pl. 3, A (ovipositor, wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (El Cermeño, Barro Colorado I.).
- ANTUNESI Lima, 1938:63, text-fig. 22, pl. 5, fig. 3, pl. 6, fig. 2 (wing, ovipositor). Type-locality: Brazil, Bahia, Pirajá. Distr. — Panama (Balboa, Canal Zone; El Cermeño; La Campana), Trinidad, Venezuela, Brazil. Ref. — Stone, 1942a:73, fig. 14, C, pl. 15, B (ovipositor, wing).
- APHELOCENTEMA Stone, 1942a:51, fig. 8, C, pl. 9, B (ovipositor, wing). Type-locality: Mexico, San Luís Potosí, Tamazunchale. Distr. — Mexico (San Luís Potosí).
- ATRIGONA Hendel, 1914b:15, 20, pl. 1, fig. 8 (wing). Type-locality: "Surinam". Distr. — Venezuela (El Valle, D. F.), Surinam, Brazil (five localities along Amazon River). Ref. — Stone, 1942a:21, fig. 1, C, pl. 1, B (ovipositor, wing).
- BAHIENSIS Lima, 1937:60, text-figs. 10, 11, pl. 3, fig. 6, pl. 4, fig. 5 (wing, ovipositor, ♂ genitalia) (as *silvae* var.). Type-locality: Brazil, Bahia. Distr. — Panama (Barro Colorado I., Canal Zone; El Cermeño; La Campana), Brazil. Ref. — Stone, 1942a:107, fig. 22, C, pl. 23, A (ovipositor, wing).
- BALLOUI Stone, 1942a:20, fig. 1, A, B, pl. 1, A (ovipositor, wing). Type-locality: Venezuela, San Juan de los Morros. Distr. — Panama (El Cermeño), Venezuela (Maracay).
- BARBIELLINI Lima, 1938:61, text-fig. 21, pl. 5, fig. 2 (wing, ovipositor). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo, Santa Catarina), Argentina (Misiones, Corrientes). Ref. — Stone, 1942a:108, fig. 22, D, pl. 23, B (ovipositor, wing).  
*bosqui* Blanchard, 1961:331. *Nomen nudum*.
- BARNESI Aldrich, 1925:3. Type-locality: Guatemala, Cayuga. Distr. — Guatemala (Cayuga), Panama (Barro Colorado I., Canal Zone; El Cermeño; La Campana), British Guiana (Moraballi Creek, Essequibo River), ?Venezuela, Brazil (Guanabara). Ref. — Stone, 1942a:52, fig. 8, D, pl. 9, C (ovipositor, wing).  
*virescens* Lima, 1937:63, pl. 3, fig. 5, pl. 4, fig. 1 (wing, ovipositor). Type-locality: Brazil, Guanabara, Rio de Janeiro.
- BENJAMINI Lima, 1938:16, figs. 2, 6-9 (ovipositor, ♂ genitalia, wing). Type-locality: Brazil, Bahia, Água Preta. Ref. — Stone, 1942a:34, fig. 4, B, pl. 4, C (ovipositor, wing).



- BEZZI Lima, 1934a:498, text-fig. 8, pl. 64, fig. 5 (♂ genitalia, wing). Type-locality: Brazil, Guanabara, Rio de Janeiro, Manguinhos. Distr. Brazil (Goiás, Guanabara). Ref. — Stone, 1942a:20.
- BINODOSA Stone, 1942a:57, fig. 10, A, pl. 10, D (ovipositor, wing). Type-locality: Brazil, Pará. Distr. — Brazil (Amazon River valley).
- BISTRIGATA Bezzi, 1919a:372, fig. 1 (wing) [also Bezzi, 1919b:7, fig. 1 (wing)]. Type-locality: Brazil, São Paulo. Distr. — Brazil (Minas Gerais, São Paulo). Ref. — Stone, 1942a:31, fig. 3, B, pl. 3, C (ovipositor, wing).
- BIVITTATA (Macquart), 1843:384 (separate, p. 227), pl. 30, fig. 3 (adult dorsum) (*Urophora*). Type-locality: Unknown (?Brazil). Ref. — Stone, 1942a:22.
- BONDARI Lima, 1934a:537, text-figs. 37, 38, pl. 70, fig. 36, pl. 75, fig. 60 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Bahia. Distr. — Brazil (Bahia). Ref. — Stone, 1942a:98, fig. 19, D, pl. 20, D (ovipositor, wing).
- BORGMEIERI Lima, 1934a:518, text-fig. 21, pl. 67, fig. 19 (wing, ♂ genitalia). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil (Guanabara). Ref. — Stone, 1942a:55.
- RUSCKI Stone, 1942a:92, fig. 18, D, pl. 19, B (ovipositor, wing). Type-locality: Panama, Canal Zone, Tabernilla. Distr. — Panama (Canal Zone, Balboa; El Cermeño; La Campana).
- CANALIS Stone, 1942a:71, fig. 14, B, pl. 15, A (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (Canal Zone, Barro Colorado I; La Campana), Venezuela (San Esteban).
- CAUDATA Stone, 1942a:85, fig. 17, A (ovipositor). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo).
- CHICLAYAE Greene, 1934:167, pl. 23, fig. 3 (wing). Type-locality: Peru, Chiclayo, Hacienda Ouefe. Distr. — U.S.A. (Texas), Mexico (Tamaulipas, Morelos), Panama, Venezuela (El Valle, D.F.), Peru (Chiclayo), Argentina (Jujuy, Salta). Ref. — Stone, 1942a:41, fig. 5, D, pl. 6, C (ovipositor, wing).
- chiclayae* Lima, 1937:47 (error).
- COMPRESSA Stone, 1942a:70, fig. 13, D, E, pl. 14, C (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (El Cermeño; La Campana; Canal Zone, Balboa).
- CONCAVA Greene, 1934:169, pl. 23, fig. 5 (wing). Type-locality: Panama, Canal Zone, Cano Saddle. Distr. — Panama (Canal Zone), Brazil (Amazon River valley). Ref. — Stone, 1942a:93, fig. 18, E, pl. 19, C (ovipositor, wing).
- CONJUNCTA Hendel, 1914b:17. Type-locality: Bolivia, Mapiri. Distr. — Bolivia (Mapiri). Ref. — Stone, 1942a:93.
- CONNEXA Lima, 1934a:530, text-fig. 28, pl. 19, fig. 29 (wing, ♂ genitalia). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo). Ref. — Stone, 1942a:94.
- CONSOBRINA (Loew), 1873:230, pl. 11, fig. 21 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — British Guiana, Argentina (Salta, Aguayray), southern Brazil. Refs. — Stone, 1942a:87, fig. 17, D, pl. 18, B (ovipositor, wing); Blanchard, 1961:327, figs. 31a-b (wing, ovipositor).

- zikani* Lima, 1934a:533, pl. 69, fig. 31, pl. 74, fig. 55, text-figs. 30, 31 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Rio de Janeiro, Estrêla.
- CONVOLUTA Stone, 1942a:38, fig. 5, A, pl. 5, D (ovipositor, wing). Type-locality: Trinidad, Arima, Verdant Vale. Distr. — Trinidad (Arima, Mt. Harris), British Guiana (Morabelli Creek, Essequibo River; Kartabo, Bartica District; Issororo, North West District), ?Venezuela.
- CORDATA Aldrich, 1925:4. Type-locality: British Honduras, Belize. Distr. — British Honduras (Belize), Panama (La Campana, El Cermeño), Venezuela. Ref. — Stone, 1942a: 35, fig. 4, D, pl. 4, D (ovipositor, wing).
- CORRENTINA Blanchard, 1961:339, fig. 40 (ovipositor). Type-locality: Argentina, Corrientes, Bella Vista. Distr. — Argentina (Corrientes).
- COSTALIMAI Autuori, 1936:194, figs. 1-3 (adult dorsum, ovipositor, wing). Type-locality: Brazil, São Paulo, Santo Amaro, Campo Belo. Distr. — Brazil (São Paulo). Ref. — Stone, 1942a:51.
- COSTARUCKMANII Capoor, 1954:214, figs. 1-3 (wing, ovipositor). Type-locality: Brazil, Minas Gerais, Itajubá. Distr. — Brazil (Minas Gerais).
- CREBRA Stone, 1942a:45, fig. 7, A, pl. 7, D (ovipositor, wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Honduras (Ceiba), Panama (various localities).
- obliqua* Macquart of Greene, 1934:163.
- CRUZI Lima, 1934a:513, pl. 66, fig. 19 (wing). Type-locality: Brazil, "Amazon River". Distr. — Brazil (Amazon River). Ref. — Stone, 1942a:40.
- CRYPTOSTREPHA Hendel, 1914b:17, pl. 1, fig. 5 (wing). Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru (Meshagua). Ref. — Stone, 1942a:101, pl. 20, B (ovipositor).
- CURITIS Stone, 1942a:32, fig. 3, D, pl. 4, A (ovipositor, wing). Type-locality: Brazil, Pará. Distr. — Brazil (Pará).
- DANGELOI Blanchard, 1961:304, fig. 12 (wing) (as *d'angeloi*). Type-locality: Argentina, Corrientes. Distr. — Argentina (Corrientes).
- DEBILIS Stone, 1942a:47, fig. 7, D, pl. 8, B (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana, El Cermeño).
- DISCESSA Stone, 1942a:34, fig. 4, C (ovipositor). Type-locality: Brazil, Guanabara, Campo Grande. Distr. — Brazil (Guanabara).
- DISSIMILIS Stone, 1942a:40, fig. 5, C, pl. 6, B (ovipositor, wing). Type-locality: Haiti, near Plaisance. Distr. — Haiti, British Guiana (Tumatumari), ?Peru, Argentina (eight provinces), Brazil (Pernambuco). Ref. — Blanchard, 1961:340, figs. 41a-b (ovipositor, wing).
- DISTANS Hendel, 1914b:17, pl. 1, fig. 4 (wing). Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru (Meshagua). Ref. — Stone, 1942a:81.
- DISTINCTA Greene, 1934:149, pl. 20, fig. 2 (wing). Type-locality: Peru, Chiclayo. Distr. — U.S.A. (Texas), Mexico, south to Peru and Brazil (Minas Gerais, Guanabara, São Paulo). Ref. — Stone, 1942a:106, fig. 22, B, pl. 22, D (ovipositor, wing).
- silvai* Lima, 1934a:545, text-figs. 49, 50, pl. 72, figs. 44, 45, pl. 75, fig. 65 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Guana-

- bara, Rio de Janeiro; Minas Gerais, Viçosa; São Paulo.  
*fraterculus*, authors (part).
- var. *MINENSIS* Lima, 1937:60, text-fig. 12, pl. 3, fig. 2, pl. 4, fig. 2 (wing, ovipositor) (as *silvai* var.). Type-locality: Brazil, Minas Gerais, Viçosa. Ref. — Stone, 1942a:107.
- DCRYPHIROS* Stone, 1942b:299, figs. 7, 14 (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Cermeño).
- DRYAS* Stone, 1942b:303, figs. 3, 11 (ovipositor, wing). Type-locality: Venezuela, Carabobo, San Esteban. Distr. — Venezuela (Carabobo).
- DUCKEI* Lima, 1934a:534, text-figs. 32, 33, pl. 69, fig. 32, pl. 75, fig. 59 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Amazonas, Manaus. Distr. — Brazil (Amazonas). Ref. — Stone, 1942a:86, fig. 17, B, pl. 18, A (ovipositor, wing).
- EDENTATA* Stone, 1942a:48, fig. 7, E, pl. 8, C (ovipositor, wing). Type-locality: U.S.A., Florida, Key Largo. Distr. — U.S.A. (Florida), Puerto Rico (Mayaguez).
- ELEGANS* Blanchard, 1937:37, fig. 2 (wing, antenna, ovipositor). Type-locality: Argentina, Corrientes, Jaguarete. Distr. — Paraguay (San Bernardino), Argentina (Misiones, Corrientes, Entre Rios), Brazil (São Paulo, Santa Catarina, Rio Grande do Sul). Ref. — Stone, 1942a:42, fig. 6, A, pl. 6, D (ovipositor, wing).
- parallela* Wiedemann of Greene. 1934:168.
- ELONGATA* Yepez, 1953:27. Type-locality: Venezuela, Aragua, Rancho Grande. Distr. — Venezuela (Aragua).
- ETHALEA* (Walker), 1849:1015 (*Trypeta*). Type-locality: Brazil, Pará. Distr. — Trinidad, Brazil, ?Argentina. Ref. — Stone, 1942a:66, fig. 13, A, pl. 13, D (ovipositor, wing).
- EXTENSA* Stone, 1942a:104, fig. 21, D (ovipositor). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil (Guanabara).
- FENESTRATA* Lutz & Lima, 1918:8, pl. 2, fig. 19 (wing). Type-locality: Brazil, "Amazonia". Distr. — Brazil ("Amazonia"). Ref. — Stone, 1942a:100.
- FISCHERI* Lima, 1934a:540, text-fig. 41, pl. 71, fig. 39, pl. 76, fig. 59 (wing, ovipositor). Type-locality: Brazil, Rio de Janeiro, Niterói. Distr. — Brazil (Rio de Janeiro). Ref. — Stone, 1942a:77.
- FLAVIPENNIS* Greene, 1934:160, pl. 22, fig. 6 (wing). Type-locality: Brazil, Pará, Rio Tapajós, Boa Vista. Distr. — Panama (Canal Zone, Barro Colorado I.; La Campana; El Cermeño; Capiro, La Chorrera), Brazil (Pará), Argentina (Santa Fe). Ref. — Stone, 1942a:89, fig. 18, A, pl. 18, C (ovipositor, wing).
- grioti* Blanchard, 1961:313. *Nomen nudum*.
- FLAVISSIMA* Hering, 1940b:56, fig. 5 (wing). Type-locality: Peru, middle Huallaga River, Juanjui. Distr. — Peru (Juanjui).
- FRACTURA* Stone, 1942a:95, fig. 18, F (ovipositor tip). Type-locality: British Guiana, Kutari Sources. Distr. — British Guiana (Kutari Sources).
- FRATERCULUS* (Wiedemann), 1830:524 (*Dacus*). Type-locality: "Brazil". Distr. — Continental America from the Rio Grande valley of Texas to Chile and Argentina (throughout), Trinidad, Tobago, British Guiana. Refs. — Emmart, 1933:184, pls. 7, 8 (eggs); Stone, 1942a:78, fig. 15, D, pl. 6, B-D (ovipositor, wings); Blanchard, 1961:317, figs. 24a-b (wing, ovipositor).

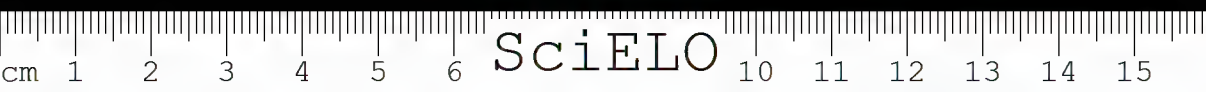


- mellea* Walker, 1837:358 (*Tephritis*). Type-locality: Brazil, São Paulo.  
 Ref. — Stone, 1942a:79; Foote, 1964b:322.
- unicolor* Loew, 1862b:70, pl. 2, fig. 6 (wing) (*Trypeta*). Type-locality: "Colombia" (New Grenada).
- frutalis* Weyenbergh, 1874:165, figs. 7-3 (adult, larva) (*Anthomyia*).  
 Type-locality: "Argentina".
- soluta* Bezzi, 1909:284 (as *fraterculus* var.). Type-locality: Brazil, São Paulo.
- peruviana* Townsend, 1913:34. Type-locality: Peru, Chosica.
- peruana*, error.
- brasilensis* Greene, 1934:154, pl. 20, fig. 6 (wing). Type-locality: Brazil, Minas Gerais, Viçosa.
- distans* Hendel of Greene, 1934:149, pl. 20, fig. 7 (wing).
- distincta* Greene (part), 1934:149.
- trinidadensis* Greene (part), 1934:161.
- suspensa* Loew of Lima, 1934a:501, pl. 66, figs. 14, 15 (wing).  
 var. *ACIDUSIFORMIS* Blanchard, 1961:320. Type-locality: unknown.  
 var. *ETHALEIFORME* Blanchard, 1961:320. Type-locality: unknown.  
 var. *INTENSA* Blanchard, 1961:319. Type-locality: unknown.  
 var. *INTERMISSA* Blanchard, 1961:319. Type-locality: unknown.  
 var. *PERUVIANA* Blanchard, 1961:320. Type-locality: unknown (?Peru).  
 var. *RETRACTA* Blanchard, 1961:319. Type-locality: unknown.  
 var. *SUBTYPICA* Blanchard, 1961:320 (as *subtipica*). Type-locality: unknown.
- var. *TYPICA* Blanchard, 1961:319 (as *tipica*). Type-locality: unknown.
- FUMIPENNIS** Lima, 1934a:499, text-fig. 6, pl. 65, fig. 10, pl. 75, fig. 62 (ovipositor, wing). Type-locality: Brazil, Guanabara, Rio de Janeiro, Mangueiros. Distr. — Brazil (Guanabara). Ref. — Stone, 1942a: 90.
- FURCATA** Lima, 1934a:529, text-fig. 27, pl. 68, fig. 28 (wing, ♂ genitalia). Type-locality: Brazil, Amazonas, Manaus, Rio Negro. Distr. — Panama (El Cermeño), Brazil (Amazonas). Ref. — Stone, 1942a: 91.
- GALBINA** Stone, 1942a:96, fig. 19, B, pl. 20, B (ovipositor tip, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana, El Cermeño).
- GIGANTEA** Stone, 1942b:299, figs. 4, 8 (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Cermeño).
- GOLDBACHI** Blanchard, 1961:301, figs. 10a-b (wing, ovipositor). Type-locality: Argentina, Tucumán, Burruyacu. Distr. — Argentina (Tucumán).
- GRANDIS** (Macquart), 1846:340 (separate, p. 212), pl. 18, fig. 14 (adult dorsum) (*Tephritis*). Type-locality: "Colombia" (New Grenada). Distr. — Panama, Colombia, Venezuela, Paraguay, Bolivia, Argentina, Brazil. Refs. — Fischer, 1932:302, figs. 1-10 (details of larva, pupa, adult); Fischer, 1934:17, figs. 1-8 (frontal bristles); Stone, 1942a:22, fig. 1, D, pl. 1, C (ovipositor, wing).
- schineri* Hendel, 1914b:19. Type-locality: Bolivia, Coroico.
- latifasciata* Hering, 1935:227, fig. 2 (wing). Type-locality: Brazil, Santa Catarina.
- GREENEI** Lima, 1937:37, text-figs. 3-4, pl. 1, fig. 7, pl. 2, fig. 2 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Bahia. Distr. — Brazil (Bahia). Ref. — Stone, 1942a:52.



- GUIANAE Stone, 1942b:303, figs. 6, 13 (ovipositor, wing). Type-locality: British Guiana, Bartica, Kartabo. Distr. — British Guiana (Kartabo), Venezuela (Carabobo).
- HASTATA Stone, 1942a:55, fig. 9, B (ovipositor). Type-locality: "Amazon". Distr. — "Amazon".
- HAYWARDI Blanchard, 1937:39, fig. 3 (wing, antenna, ovipositor). Type-locality: Argentina, Entre Rios, Concordia. Distr. — Argentina (Corrientes, Misiones, Entre Rios). Ref. — Stone, 1942a:39.
- HENDELIANA Lima, 1934a:528, text-figs. 25-26, pl. 68, fig. 27 (wing, ♂ genitalia). Type-locality: Brazil, Amazonas, Uaupés (= São Gabriel), Rio Negro. Distr. — Brazil (Amazonas). Ref. — Stone, 1942a:85.
- INCA Stone, 1942a:101, fig. 20, D, pl. 21, C (ovipositor, wing). Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco).
- INFUSCATA Shaw, 1962:411, pl. 1, B, pl. 2, B (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana, El Cermeño).
- INSULAE Stone, 1942a:47, fig. 7, C, pl. 8, A (ovipositor, wing). Type-locality: Cuba, Isle of Pines. Distr. — Dominican Republic (Santo Domingo), Cuba.
- INTEGRA (Loew), 1873:230, pl. 11, fig. 23 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — ?British Guiana, Brazil. Ref. — Stone, 1942a:53.
- IRRADIATA Blanchard, 1961:300, fig. 9 (wing). Type-locality: Argentina, Corrientes, Yaguareta. Distr. — Argentina (Corrientes).
- IRRETITA Stone, 1942a:78, fig. 15, C, pl. 16, A (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (Canal Zone, Balboa, La Campana, Capiro, El Cermeño).
- KUHLMANNI Lima, 1934a:520, text-figs. 21-22, pl. 67, fig. 24, pl. 74, fig. 57 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Guanabara, Rio de Janeiro, Rio Trapicheiro. Distr. — Brazil (Guanabara), Argentina (Santa Fe, Loreto, Misiones). Ref. — Stone, 1942a:56, fig. 9, D, pl. 10, B (ovipositor, wing).
- LAMBDA Hendel, 1914b:17, pl. 1, fig. 3 (wing). Type-locality: Peru, Pini-Pini. Distr. — Peru (Pini-Pini). Ref. — Stone, 1942a:109.
- LANCEOLA Stone, 1942a:44, fig. 6, D, pl. 7, B (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (Canal Zone, Balboa, La Campana, El Cermeño).
- LATHIANA Stone, 1942a:105, fig. 22, A, pl. 22, C (ovipositor, wing). Type-locality: Mexico, Morelos, Cuernavaca. Distr. — U.S.A. (Texas), Mexico (Morelos).
- LEPTOZONA Hendel, 1914b:19. Type-locality: Bolivia, Mapiri, San Antonio. Distr. — Guatemala to Panama, British Guiana, Venezuela (Rancho Grande, Aragua; El Valle, D.F.), Bolivia, southern Brazil. Ref. — Stone, 1942a:39, fig. 5, B, pl. 6, A (ovipositor, wing).
- LIMAE Stone, 1942a:67, fig. 13, B, pl. 14, A (ovipositor, wing). Type-locality: Panama, Panama City. Distr. — U.S.A. (Texas), Panama (Capiro, Juan Díaz, Panama City, Canal Zone).
- LOEWI Stone, 1942a:49, fig. 8, A, pl. 9, A (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama, Venezuela.
- integra* Loew of Hendel, 1914b:15 (part).
- LUDENS (Loew), 1873-223, pl. 11, fig. 19 (wing) (*Trypeta*). Type-locality: "Mexico". Distr. — U.S.A. (Texas), Mexico (south from Matamoros, Tamaulipas and Sinaloa), Guatemala, Costa Rica. Refs.

- Emmart, 1933:184, pls. 7-8 (eggs); Emmart, 1935:119, pls. 11-16 (chromosomes); Stone, 1942a: 97, fig. 19, C, pl. 20, C (ovipositor, wing); Baker *et al.*, 1944:2 (biology).
- LUTEA Stone, 1942a:95, fig. 19, A, pl. 20, A (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Cermeño).
- LUTZI Lima, 1934a:540, text-fig. 42, pl. 71, fig. 40, pl. 76, fig. 71 (wing, ovipositor). Type-locality: Brazil, Guanabara, Rio de Janeiro, Mangueiros. Distr. — Brazil (Guanabara), Argentina (Tucumán). Refs. — Stone, 1942a:65; Blanchard, 1961:332, figs. 34a-b (wing, ovipositor).
- MACRA Stone, 1942a:108, fig. 22, E, pl. 23, C (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (Canal Zone, El Cermeño, La Campana).
- MANIHOTI Lima, 1934a:543, text-figs. 47-48, pl. 72, fig. 43, pl. 76, fig. 72 (wing, ovipositor, ♂ genitalia) (as *manhioti*; emendation by Stone, 1942a:64). Type-locality: Brazil, Minas Gerais, Viçosa. Distr. — Panama (Pueblo Nuevo), Venezuela, Brazil. Ref. — Stone, 1942a: 64, fig. 12, B, pl. 13, A (ovipositor, wing).
- MBURUCUYAE Blanchard, 1961:325, fig. 29 (wing). Type-locality: Argentina, Santa Fe, Reconquista; Santiago del Estero. Distr. — Argentina (Santa Fe, Santiago del Estero).
- MINUTA Stone, 1942a:46, fig. 7, B, pl. 7, E (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (Canal Zone, Balboa; La Campana).
- MOMBINPRAEOPTANS Sein, 1933:187, pl. 10, figs. 1, 4, 6, 8, pl. 11, figs. 9, 10, 14-17, 19-27, pl. 12, figs. 32-37, 40, 41, pl. 13, figs. 43-51, pl. 14, figs. 52-56 (details of egg, larva, pupa, adult) (as *fraterculus* var.). Type-locality: Puerto Rico, Río Piedras. Distr. — U.S.A. (southern Florida, southern Texas), throughout Antilles to Trinidad, Mexico to Panama, Ecuador, Venezuela, Brazil. Ref. — Stone, 1942a:68, fig. 13, C, pl. 14, B (ovipositor, wing).
- ethalea* Walker of Greene, 1934:161.
- trinidadensis* Greene, 1934:161, pl. 22, fig. 2 (wing). Type-locality: Trinidad, Tabaquite.
- ligata* Lima, 1934a:552, text-fig. 54, pl. 73, fig. 52, pl. 76, fig. 75 (wing, ovipositor) (as *fraterculus* var.). Type-locality: Brazil, Guanabara, Rio de Janeiro.
- acidusa*, authors, not Walker.
- MONTEI Lima, 1934a:541, text-figs. 43-44, pl. 72, fig. 41, pl. 76, fig. 68 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Minas Gerais, Belo Horizonte; Guanabara, Rio de Janeiro (ex D.F.). Distr. — Costa Rica (Higuito, San Mateo), Panama (Canal Zone, Balboa; Capira, La Campana), ?Venezuela, Brazil (Minas Gerais, Guanabara), Paraguay (San Bernardino), Argentina (Corrientes, Jujuy). Ref. — Stone, 1942a:59, fig. 10, C, pl. 11, B (ovipositor, wing).
- MUCRONATA Stone, 1942a:57, fig. 9, E, pl. 10, C (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Cermeño).
- MUNDA Schiner, 1868:264. Type-locality: "Venezuela". Distr. — Venezuela. Ref. — Stone, 1942a:41.
- NIGRIPALPIS Hendel, 1914b:18. Type-locality: Bolivia, Mapiri, San Antonio, and Peru, Meshagua, Urubamba River. Distr. — Bolivia (Mapiri) Peru (Meshagua). Ref. — Stone, 1942a:87, fig. 17, C (ovipositor)



- OBLIQUA (Macquart), 1835:464 (*Tephritis*). Type-locality: "Cuba". Distr. — Cuba, British Guiana. Ref. — Stone, 1942a:75.
- OCHRESIA (Walker), 1849:1016 (*Trypeta*). Type-locality: "Jamaica". Distr. — U.S.A. (Florida: Key Largo and Key West), Cuba (east and west tips, Isle of Pines), Jamaica, Puerto Rico, Hispaniola (city of Santo Domingo). Ref. — Stone, 1942a:24, fig. 1, E, pl. 2, A (ovipositor, wing).
- tricincta* Loew, 1873:225 (*Trypeta*). Type-locality: "On board ship 60 miles northwest of St. Nicholas, Haiti".
- ORNATA Aldrich, 1925:6. Type-locality: Ecuador, Oriente, Baños. Distr. — Ecuador (Ambato, Oriente). Ref. — Stone, 1942a: 25, fig. 2, A, pl. 2, B (ovipositor, wing).
- PALAE Stone, 1942a:58, fig. 10, B, pl. 11, A (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (La Campana, El Cermeño).
- PALLIDIPENNIS Greene, 1934:166, pl. 23, fig. 1 (wing). Type-locality: Colombia, Medellín. Distr. — Panama (Canal Zone, Barro Colorado I.), Colombia. Ref. — Stone, 1942a:32, fig. 3, C, pl. 3, D (ovipositor, wing).
- PANAMENSIS Greene, 1934:150, pl. 20, fig. 8 (wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, Barro Colorado I.; Chorrero; La Campana). Ref. — Stone, 1942a: 59, fig. 10, D, pl. 11, C (ovipositor, wing).
- PARALLELA (Wiedemann), 1830:515 (*Dacus*). Type-locality: "Brazil". Distr. — ?Mexico, ?British Guiana, ?Paraguay, Brazil (Bahia). Ref. — Stone, 1942a:53, fig. 9, A, pl. 9, D (ovipositor, wing).
- PARISHI Stone, 1942b:302, figs. 5, 9 (ovipositor, wing). Type-locality: British Guiana, Bartica. Distr. — British Guiana (Bartica).
- PASSIFLORAE Greene, 1934:151, pl. 20, fig. 9 (wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone). Ref. — Stone, 1942a:66, fig. 12, D, pl. 13, C (ovipositor, wing).
- PASTRANAI Blanchard, 1961:336, figs. 38a-b (wing). Type-locality: Argentina, Jujuy, Santa Barbara. Distr. — Argentina (Jujuy).
- PERDITA Stone, 1942a:76, fig. 15, A (ovipositor). Type-locality: "Brazil". Distr. — Panama (El Cermeño), Brazil.
- PHAEOPTERA Lima, 1937:38, text-fig. 9, pl. 1, fig. 3 (wing, ovipositor). Type-locality: Brazil, Bahia. Distr. — Brazil (Bahia). Ref. — Stone, 1942a:92.
- PICKELI Lima, 1934a:542, text-figs. 45-46, pl. 72, fig. 42, pl. 76, fig. 73 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Pernambuco and Guanabara, Rio de Janeiro. Distr. — Panama (Culebra, Canal Zone, Capira, El Cermeño), Venezuela (El Valle), Argentina (Salta, Jujuy, Misiones), Brazil (Guanabara, Bahia). Ref. — Stone, 1942a: 63, fig. 12, A, pl. 12, D (ovipositor, wing).
- PSEUDOFRATERCULUS Capoor, 1955:28, pl. 1, fig. 3, pl. 3, fig. 7 (wing, ovipositor). Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil (Rio de Janeiro).
- PSEUDOPARALLELA (Loew), 1873:230, pl. 11, fig. 24 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — Argentina (Tucumán), Brazil (Minas Gerais, Guanabara, São Paulo). Ref. — Stone, 1942a:84, fig. 16, C, pl. 17, C (ovipositor, wing).



- PSEUDOPUNCTATA Blanchard, 1961:306, fig. 14 (ovipositor). Type-locality: Argentina, Tucumán. Distr. — Northern Argentina (Salta, Jujuy, Chaco, Misiones, Tucumán).
- var. DISTENTA Blanchard, 1961:307, fig. 15 (ovipositor). Type-locality: Argentina, Tucumán.
- PULCHRA Stone, 1942a:26, fig. 2, B, pl. 2, C (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana, El Cermeño).
- PUNCTATA Hendel, 1914b:19. Type-locality: Paraguay, San Bernardino. Distr. — Paraguay, Argentina, Central and Southern Brazil. Refs. — Fischer, 1933:84, fig. 1 (adult ♀, ovipositor); Fischer, 1934:21, figs. 9-11 (frontal bristles, wing); Stone, 1942a:36, fig. 4, E, pl. 5, A (ovipositor, wing).
- hendeli* Greene, 1934:155, pl. 21, fig. 1 (wing). Type-locality: Brazil, São Paulo.
- minor* Lima, 1934a:509, pl. 66, fig. 17, text-fig. 14 (wing, ♂ genitalia). Type-locality: Brazil, Mato Grosso, Fazenda Murtinho.
- QUARARIBAE Lima, 1937:35, text-figs. 1-2, pl. 1, figs. 6, 8, pl. 2, fig. 4 (wings, ovipositor, ♂ genitalia). Type-locality: Brazil, Bahia. Distr. — Brazil (Bahia). Ref. — Stone, 1942a:44, fig. 6, E, pl. 7, C (ovipositor, wing).
- QUINAE Lima, 1937:37, text-figs. 7-8, pl. 1, fig. 2, pl. 2, fig. 1 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Bahia. Distr. — Brazil (Bahia). Ref. — Stone, 1942a:104, fig. 21, C, pl. 22, B (ovipositor, wing).
- RAMOSA Stone, 1942a:60, fig. 1, A, pl. 11, D (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (La Campana, El Cermeño).
- REPANDA Blanchard, 1961:326, figs. 30a-b (wing, ovipositor). Type-locality: Argentina, Santa Fe. Distr. — Argentina (Santa Fe).
- RHEEDIAE Stone, 1942a:65, fig. 12, C, pl. 13, B (ovipositor, wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, La Campana, El Cermeño), Trinidad, Venezuela (El Valle).
- ROBUSTA Greene, 1934:144, pl. 19, fig. 5 (wing). Type-locality: Guatemala, Cayuga. Distr. — Mexico (Córdoba), Guatemala, Venezuela, Panama, Brazil (Pará, Rio Cuminá). Ref. — Stone, 1942a:90, fig. 18, B, pl. 18, D (ovipositor, wing).
- furcata* Lima, 1937:64, fig. 17 (ovipositor). Type-locality: Brazil, Pará, Rio Cuminá.
- ROSILLOI Blanchard, 1961:321, figs. 26a-b (wing, ovipositor). Type-locality: Argentina, Jujuy, El Carmen. Distr. — Argentina (Jujuy, Salta, Tucumán).
- SCHAUSI Aldrich, 1925:3. Type-locality: Costa Rica, Juan Viñas. Distr. — Costa Rica (Juan Viñas). Ref. — Stone, 1942a:37, pl. 5, B (wing).
- SCHOLAE Capoor, 1955:27, pl. 1, fig. 2, pl. 3, fig. 5 (wing, ovipositor). Type-locality: not given [Brazil]. Distr. — Brazil.
- SCHULTZI Blanchard, 1938:366. Type-locality: Argentina, Tucumán. Distr. — Argentina (Tucumán, Salta, Jujuy, Catamarca, Misiones). Ref. — Blanchard, 1961:314, figs. 22a-b (wing, ovipositor).
- var. OBLITERATELLA Blanchard, 1938:368. Type-locality: Argentina, Tucumán.



- SCOBINAE Stone, 1942a:56, fig. 9, C, pl. 10, A (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Cermeño).
- SERPENTINA (Wiedemann), 1830:521 (*Dacus*). Type-locality: "Brazil". Distr. — U.S.A. (Texas), throughout Mexico and Central America to Peru, Trinidad, British Guiana south to Brazil, Venezuela, Argentina, Ecuador. Refs. — Emmart, 1933:184, pls. 7-8 (eggs); Stone, 1942a:27, fig. 2, C, pl. 2, D (ovipositor, wing).
- vittithorax* Macquart, 1851:259 (separate, p. 286), pl. 26, fig. 11 (wing) (*Urophora*). Type-locality: "L'Indie".
- SHANNONI Stone, 1942a:23, pl. 1, D (wing). Type-locality: Peru, Amazonas, Chimbote. Distr. — Peru (Amazonas).
- SIMILIS Greene, 1934:153, pl. 20, fig. 5 (wing). Type-locality: Panama, Cabima. Distr. — Panama (Cabima, La Campana, El Cermeño). Ref. — Stone, 1942a:43, fig. 6, C, pl. 7, A (ovipositor, wing).
- SODALIS Stone, 1942a:102, fig. 21, A (ovipositor). Type-locality: Brazil, Pará, Santarém. Distr. — Brazil (Pará).
- SPATULATA Stone, 1942a:61, fig. 11, C, pl. 12, B (ovipositor, wing). Type-locality: Mexico, Tamaulipas. Distr. — U.S.A. (Texas), Mexico (Tamaulipas, Baja California), Costa Rica, Panama (La Campana, El Cermeño).
- SPECIOSA Stone, 1942a:100, fig. 20, C, pl. 21, B (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Cermeño).
- STRIATA Schiner, 1868:264. Type-locality: "South America". Distr. — U.S.A. (Texas), Mexico to Panama, northern South America, south to Peru and Brazil (Amazonas). Refs. — Emmart, 1933:184, pls. 7-8 (eggs); Stone, 1942a:29, fig. 3, A, pl. 3, B (ovipositor, wing).
- SUBMUNDA Lima, 1937:37, text-figs. 5-6, pl. 1, figs. 4-5, pl. 2, fig. 3 (wings, ovipositor, ♂ genitalia). Type-locality: Brazil, Bahia. Distr. — Brazil (Bahia). Ref. — Stone, 1942a:47.
- SUBRAMOSA Stone, 1942a:61, fig. 11, B, pl. 12, A (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana).
- SUPERFLUA Stone, 1942a:33, fig. 4, A, pl. 4, B (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (La Campana, El Cermeño, Canal Zone: Balboa).
- SUSPENSIA (Loew), 1862b:69, pl. 2, fig. 5 (wing) (*Trypeta*). Type-locality: "Cuba". Distr. — U.S.A. (southern Florida), Cuba, Puerto Rico, Jamaica, Hispaniola. Refs. — Stone, 1942a:74, fig. 14, D, pl. 15, C (ovipositor, wing); Weems, 1965:1, fig. 1 (adult ♀).
- unipuncta* Seín, 1933:190, pl. 10, figs. 2-5, pl. 11, figs. 11-13, 18, 28-31, pl. 12, figs. 38-39, 42, pl. 14, figs. 57-60 (egg, larva, pupa, adult). Type-locality: Puerto Rico, Río Piedras.
- longimacula* Greene, 1934:146, pl. 19, fig. 11 (wing). Type-locality: Jamaica, Hope.
- SYLVICOLA Knab, 1915:146. Type-locality: "Trinidad". Distr. — Trinidad, Venezuela (El Valle). Ref. — Stone, 1942a:102, fig. 20, E, pl. 21, D (ovipositor, wing).
- TELI Stone, 1942b:302, figs. 1, 10 (ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (La Campana, El Cermeño).
- TERETIS Stone, 1942a:103, fig. 21, B, pl. 22, A (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana, El Cermeño).

- TOWNSENDI Greene, 1934:165, pl. 22, fig. 10 (wing). Type-locality: Brazil, Pará, Rio Tapajós, Boa Vista. Distr. — Brazil (Pará). Ref. — Stone, 1942a:84, fig. 16, D, pl. 17, D (ovipositor, wing).
- TRIANGULATA Shaw, 1962:412, pl. 1, C, pl. 3, C (ovipositor, wing). Type-locality: Mexico, Morelos, Cuernavaca. Distr. — Mexico (Morelos).
- TRIPUNCTATA Wulp, 1899:405, pl. 11, fig. 22 (wing). Type-locality: Mexico, Guerrero, Venta de Zopilote. Distr. — Mexico (Guerrero). Ref. — Stone, 1942a:38, pl. 5, C (wing).
- TUBIFERA (Walker), 1857:230 (*Trypeta*). Type-locality: "China" (error; probably West Indies). Distr. — ?West Indies. Ref. — Stone, 1942a:49, pl. 8, D, pl. 23, D (wing, ovipositor).
- TUMIDA Stone, 1942a:98, fig. 19, D, pl. 20, D (ovipositor tip, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana, Capira, El Cermeño).
- TURICAI Blanchard, 1961:316, figs. 23a-b (wing, ovipositor). Type-locality: Argentina, Tucumán, Colalao del Valle. Distr. — Argentina (Tucumán).
- TURPINIAE Stone, 1942a:83, fig. 16, B, pl. 17, B (ovipositor, wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone, La Campana).
- UMBROSA Blanchard, 1961:332, figs. 35a-b (ovipositor, wing). Type-locality: Argentina, Misiones, Posadas. Distr. — Argentina (Misiones).
- UNDOSA Stone, 1942a:50, fig. 8, B (ovipositor). Type-locality: Bolivia, Río Paraguay, Piedra Blanca, four miles west of Corumbá, Mato Grosso in Brazil (not in Argentina, Córdoba or Catamarca, as in Blanchard, 1961:313). Ref. — Blanchard, 1961:312, fig. 20 (ovipositor).
- XANTHOCHAETA Hendel, 1914b:18. Type-locality: Brazil, Rio Grande do Sul. Distr. — Brazil (Rio Grande do Sul). Ref. — Stone, 1942a:43, fig. 6, B (ovipositor).
- ZETEKI Greene, 1934:152, pl. 20, fig. 4 (wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone). Ref. — Stone, 1942a:94, fig. 18, G, pl. 19, D (ovipositor, wing).
- ZUELANIAE Stone, 1942a:82, fig. 16, A, pl. 17, A (ovipositor, wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — U.S.A. (Texas) to Panama.

#### Genus BARYPLEGMA Wulp

- BARYPLEGMA Wulp, 1899:416. Type-species, *gilva* Wulp (mon.).  
*Baryphlegma*, error.
- GILVA Wulp, 1899:416, pl. 12, fig. 14 (wing). Type-locality: Mexico, Santiago Iscuintla, Navarrit. Distr. — Mexico (Santiago Iscuintla). Ref. — Foote, 1965b:243.
- VULPIANA Enderlein, 1911:431. Type-locality: "Costa Rica". Distr. — Costa Rica.  
*wulpiana*, error or emendation.

#### Genus BLEPHARONEURA Loew

- BLEPHARONEURA Loew, 1873:272. Type-species, *Trypeta poecilogastra* Loew (orig. des.) = *poecilosoma* (Schiner).

- AMAZONENSIS** Lima & Leite, 1952:308, figs. 22, 47 (♂ genitalia, wing).  
Type-locality: Brazil, Amazonas, Rio Negro, Uaupés (= São Gabriel). Distr. — Brazil (Amazonas).
- BISERIATA** Wulp, 1899:413, pl. 12, fig. 8 (wing). Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:241.
- DIVA** Giglio-Tos, 1893:10. Type-locality: Mexico, Tuxpango. Ref. — Giglio-Tos, 1895:57, fig. 17 (wing).
- FEMORALIS** Wulp, 1899:412, pl. 12, fig. 6 (wing). Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:241.
- FURCIFER** Hendel, 1914b:23, fig. 14 (wing). Type-locality: Bolivia, Mapiri, San Carlos and Peru, Mouth of River Pachitea. Distr. — Peru, Bolivia. Ref. — Hering, 1941a:133.
- HIRSUTA** Bates, 1933b:48, figs. 1-2 (head, wing). Type-locality: Venezuela, Aroa. Distr. — Venezuela (Aroa).
- 10** Giglio-Tos, 1893:10. Type-locality: Mexico, Tuxpango. Distr. — Mexico (Tuxpango). Ref. — Giglio-Tos, 1895:57, fig. 18 (wing).
- LONGICAUDA** Hendel, 1914b:22 (as *poecilosoma* var.). Type-locality: Peru, Callanga. Distr. — Peru (Callanga). Ref. — Hering, 1941a:132.
- POECILOSOMA** (Schiner), 1868:274 (*Oxyphora*). Type-locality: "South America". Distr. — Mexico, Costa Rica, West Indies, northern South America south to Peru (Callanga) and Brazil (Pará).
- poecilogastra* Loew, 1873:270 (*Trypeta*). Type-locality: "Cuba".
- saga* Giglio-Tos, 1893:10. Type-locality: Mexico, Córdoba. Ref. — Giglio-Tos, 1895:56, fig. 19 (wing).
- fulvicollis* Wulp, 1899:411, pl. 12, fig. 5 (wing). Type-locality: Mexico, Vera Cruz. Ref. — Foote, 1965b:240.
- quadristriata* Wulp, 1899:413, pl. 12, fig. 7 (wing). Type-locality: Mexico, Tabasco, Teapa. Ref. — Foote, 1965b:241.
- impunctata* Hendel, 1914b:22 (as *poecilosoma* var.). Type-locality: unknown.
- parva* Hendel, 1914b:22 (as *poecilosoma* var.). Type-locality: Peru, Callanga.
- nigripilosa* Hering, 1935:226 (as *poecilosoma* var.). Type-locality: Ecuador, Santa Inez.
- PULCHELLA** (Wulp), 1899:403, pl. 11, fig. 18 (wing) (*Hexachaeta*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Tabasco). Ref. — Foote, 1965b:237.
- REGINA** Giglio-Tos, 1893:9. Type-locality: "Mexico". Distr. — Mexico. Ref. — Giglio-Tos, 1895:56, fig. 16 (wing).
- RUPTA** (Wulp), 1899:404, pl. 11, fig. 19 (wing) (*Hexachaeta*). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Tabasco). Ref. — Foote, 1965b:237.
- THETIS** Hendel, 1914b:22. Type-locality: Brazil, Rio Grande do Sul. Distr. — Brazil (Rio Grande do Sul).

#### Genus CECIDOCARELLA Hendel

- CECIDOCARELLA** Hendel, 1936:74. Type-species, *elegans* Hendel (mon.).  
Ref. — Aczél, 1953a:115 (key).



**ELEGANS** Hendel, 1936:75, fig. 3 (wing) (as "nov. gen.", error). Type-locality: Brazil, Rio de Janeiro, Serra do Itatiaia. Distr. — Brazil (Rio de Janeiro). Ref. — Aczél, 1953a:115, text-figs. 3-6, pl. 1, C (head, antenna, palpus, epandrium, wing).

**TUCUMANA** Aczél, 1953a:118, pl. 2, D (wing). Type-locality: Argentina, Tucumán, Tafi del Valle. Distr. — Argentina (Tucumán).

#### Genus CECIDOCHARES Bezzi

**CECIDOCHARES** Bezzi, 1910:20. Type-species, *Trypeta nigerrima* Loew (Hendel, 1914b:40) = *connexa* (Macquart).

*Cecidochares*, subg. *Eucecidochares* Bezzi & Tavares, 1916:157, 159. Type-species, *Urophora connexa* Macquart (orig. des.).

*Costalimaia* Hering, 1947a:4. Type-species, *Procecidochares fluminensis* Lima (orig. des.).

Ref. — Aczél, 1953a:128 (key to Neotropical species).

**BRAZILIENSIS** Aczél, 1953a:130, text-fig. 10, pl. 2, F (head, wing). Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil (São Paulo).

**CONNEXA** (Macquart), 1848:224 (separate, p. 64), pl. 7, fig. 10 (wing) (*Urophora*). Type-locality: "Brazil". Distr. — Venezuela (D.F.), Argentina (Tucumán: San Javier and San Pedro de Colalao), Brazil (Bahia, Rio de Janeiro, São Paulo). Ref. — Aczél, 1953a:133, figs. 14-18, pl. 3, G (head, palpus, ♂ genitalia, wing).

*nigerrima* Loew, 1862a:219 (Cent. 2, 89, footnote) (*Trypeta*). Type-locality: "Brazil".

*leucotricha* Schiner, 1868:266 (*Oedaspis*). Type-locality: "South America".

**DELTA** (Hendel), 1914b:43, pl. 2, fig. 28 (wing) (*Procecidochares*). Type-locality: Peru, Cuzco and Mamara. Distr. — Peru, Chile (Mamiña). Refs. — Hering, 1941a:146; Aczél, 1953a:137, pl. 3, H (wing).

**EUPATORII** (Kieffer & Jörgenson), 1910:387, fig. 18 (wing) (*Acidia*). Type-locality: Argentina, Mendoza, "Cordilleren". Distr. — Bolivia (Santa Cruz de la Sierra, Buena Vista), Argentina (Mendoza). Ref. — Lindner, 1928:27.

**FLUMINENSIS** (Lima), 1934b:124, pl. 1, fig. 7 (wing) (*Procecidochares*). Type-locality: Brazil, Rio de Janeiro, Angra dos Reis and Pinheiral (= Pinheiros), Pirai; Guanabara, Rio de Janeiro, Paineiras. Distr. — Brazil (Rio de Janeiro, Guanabara, São Paulo). Ref. — Aczél, 1953a:139, text-fig. 11, pl. 3, I (head, wing).

**FRAUENFELDI** (Schiner), 1868:276, pl. 3, figs. 4, 4a (wing, adult) (*Icaria*). Type-locality: "Cape of Good Hope" (?). Distr. — Brazil (Rio de Janeiro: Petrópolis).

**IANTHINA** Aczél, 1953a:142, text-fig. 13, pl. 4, K (head, wing). Type-locality: Argentina, Tucumán, Lacavera. Distr. — Argentina (Tucumán).

**LATIGENIS** Hendel, 1914b:41. Type-locality: Bolivia, Mapiri, Lorenzopata. Distr. — Bolivia (Mapiri).



QUINQUEFASCIATA (Hendel), 1914b:43, pl. 2, fig. 29 (wing) (*Procedidochares*).  
Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco, Oroya), Bolivia ("Cordillere"), Ecuador (Casitagua, Danas). Ref. — Hering, 1941a:146.

*quinquefasciata* Becker, 1919:192, pl. 16, fig. 7 (wing) (*Oedaspis*).  
Type-locality: Ecuador, Danas, Casitagua.

RUFESCENS Bezzi, 1913:155. Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo).

*nigerrima* Loew of Bezzi, 1910:21.

VIOLACEA Aczél, 1953a:145, text-figs. 19-20, pl. 4, L (head, ♂ abdomen, wing).  
Type-locality: Argentina, Córdoba, Enredadera. Distr. — Argentina (Córdoba).

#### Genus CELIDOSPHENELLA Hendel

CELIDOSPHENELLA Hendel, 1914a:86 (1914b:48). Type-species, *maculata* Hendel (orig. des.).

MACULATA Hendel, 1914b:48. Type-locality: Chile, Magallanes, Punta Arenas. Distr. — Chile (Magallanes).

FOECILA (Schiner), 1868:268 (*Sphenella*). Type-locality: "Chile". Distr. — Chile.

#### Genus CERATITIS Macleay

CERATITIS Macleay, 1829:482. Type-species, *citriperda* Macleay (mon.) = *capitata* (Wiedemann).

Long known to be present in various countries in South America, *capitata* has been introduced on at least three separate occasions into the State of Florida in the United States but eradicated each time. In the recent past this insect has found its way into Costa Rica and is now held within a relatively small area in Central America. It is one of the most economically important of all insects that attack plants.

CAPITATA (Wiedemann), 1824:55 (*Trypeta*). Type-locality: "East Indies", probably error. Distr. — Bermuda, southern Nicaragua, Costa Rica, northern Panama, Venezuela, Bolivia, Peru, Chile, Uruguay, Argentina, Brazil. Ref. — Hardy, 1949:186, figs. 3, 5, 10, 12, 15, 18, 21, 24, 27 (details of egg, larva, pupa, adult).

#### Genus CERATITOEDASPIS Aczél

CERATITOEDASPIS Aczél, 1953a:111. Type-species, *palpalis* Aczél (orig. des.).

PALPALIS Aczél, 1953a:111, text-figs. 1-2, pl. 1, B (head, antenna, wing).  
Type-locality: Guatemala, Yepocapa. Distr. — Guatemala (Yepocapa).

#### Genus CERATODACUS Hendel

CERATODACUS Hendel, 1914a:81 (1914b:10). Type-species, *longicornis* Hendel (orig. des.).

LONGICORNIS Hendel, 1914b:11, text-fig. A, pl. 1, fig. 1 (head, wing). Type-locality: "Peru". Distr. — Peru. Ref. — Hering, 1941a:132.

### Genus CHRYSACIURA Aczél

- CHRYSACIURA Aczél, 1953a:188. Type-species, *bipuncta* Aczél (orig. des.).  
BIPUNCTA Aczél, 1953a:188, text-figs. 53-55, pl. 8, Z (head, scutellum, abdomen, wing). Type-locality: Argentina, Tucumán, Quebrada la Loma. Distr. — Argentina (Tucumán).

### Genus CRYPTODACUS Hendel

- CRYPTODACUS Hendel, 1914a:84 (1914b:12). Type-species, *obliquus* Hendel (orig. des.).  
OBLIQUUS Hendel, 1914b:12, pl. 1, fig. 2 (wing). Type-locality: Bolivia, Songo. Distr. — Bolivia (Songo).  
*scutellatus* Hendel, 1936:73. Type-locality: "Brazil, Natal", error. Not Neotropical.  
SILVAI Lima, 1947:153, figs. 1-5 (wing, ovipositor, ♂ genitalia). Type-locality: Brazil, Rio Grande do Sul, Rio Grande. Distr. — Brazil (Rio Grande do Sul).

### Genus CRYPTOPLAGIA Aczél

- CRYPTOPLAGIA Aczél, 1951b:265. Type-species, *cuculiformis* Aczél (orig. des.).  
CUCULIFORMIS Aczél, 1951b:265, text-figs. 15-26, pl. 1, B (head, thorax, abdomen, wing, ovipositor, ♂ genitalia). Type-locality: Peru, Piura. Distr. — Peru (Piura).

### Genus CRYPTOTRETA Blanc & Foote

- CRYPTOTRETA Blanc & Foote, 1961:82. Type-species, *Eurosta pallida* Cole (orig. des.).  
PALLIDA (Cole), 1923:472, fig. 10 (wing) (*Eurosta*). Type-locality: Mexico, Baja California, San Francisquito Bay. Distr. — U.S.A. (California), Mexico (Baja California). Ref. — Blanc & Foote, 1961: 83, fig. 4 (wing).

### Genus DICTYOTRYPETA Hendel

- DICTYOTRYPETA Hendel, 1914a:93 (1914b:49). Type-species, *syssema* Hendel (orig. des.).  
SYSSEMA Hendel, 1914b:50. Type-locality: Peru, Mamara and Cuzco. Distr. — Peru (Mamara, Cuzco). Ref. — Hering, 1941a:149.

### Genus DIOXYNA Frey

- DIOXYNA Frey, 1945:62. Type-species, *Trypeta sororcula* Wiedemann (orig. des.).  
*Ensina*, authors (part).

In much of the older literature these species have been placed in the genera *Tephritis*, *Trypanea*, *Ensina*, and *Paroxyna*. The species are very poorly known in the New World.

Ref. — Munro, 1957:936 (rev.).

- CHILENSIS (Macquart), 1843:387 (separate, p. 230), pl. 31, fig. 11 (wing) (*Ensina*). Type-locality: "Chile". Distr. — Peru, Bolivia, Argentina, Chile. Ref. — Hering, 1941a:161.
- sororcula*, authors (part), not Wiedemann.
- PEREGRINA (Loew), 1873:292, pl. 10, fig. 30 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — Brazil.
- PICCIOLA (Bigot), 1857b:347, pl. 20, fig. 10 (adult) (*Acinia*). Type-locality: "Cuba". Distr. — Mexico, Bahama Is., Bermuda, West Indies to Trinidad. Refs. — Benjamin, 1934:42, fig. 30, A-N (egg, larva, pupa, adult); Munro, 1957:936, figs. 51-52, 53f (wing, aedeagus, sternites 4, 5).
- humilis* Loew, 1862b:81, pl. 2, fig. 17 (wing) (*Trypeta*). Type-locality: "Cuba".
- aurifera* Thomson, 1869:585 (*Trypeta*). Type-locality: U.S.A., California.
- peregrina* Loew of Williston, 1896:377 (*Trypeta*).
- sororcula*, authors (part), not Wiedemann.
- PLANICAPITIS (Hering), 1941a:162, pl. 1, fig. 5 (wing) (*AParoxyna*). Type-locality: Peru, Ocana and Aina. Distr. — Bolivia (La Paz), Peru.
- sororcula* (Wiedemann). Not Neotropical.
- THOMAE (Curran), 1928:70, fig. 30 (wing) (*Ensina*). Type-locality: St. Thomas I. Distr. — U.S.A. (Florida), West Indies. Refs. — Benjamin, 1934:41, fig. 37, A-G (antenna, head, ♂ genitalia, ovipositor, wings); Munro, 1957:938.

#### Genus DRACONTOMYIA Becker

- DRACONTOMYIA Becker, 1919:193. Type-species, *riveti* Becker (mon.). Ref. — Aczél, 1953a:121 (key).
- FOOTEI Aczél, 1953a:121, text-figs. 7-9, pl. 2, E (head, ovipositor, wing). Type-locality: Peru, Elma. Distr. — Peru (Elma, Parish).
- RIVETI Becker, 1919:193, pl. 16, fig. 1 (wing). Type-locality: Ecuador, Casitagua. Distr. — Ecuador (Casitagua).

#### Genus DYSEUARESTA Hendel

- DYSEUARESTA Hendel, 1928:368. Type-species, *Euaresta adelphica* Hendel (orig. des.).
- ADELPHICA (Hendel), 1914b:72, pl. 4, fig. 64 (wing) (*Euaresta*). Type-locality: "Paraguay". Distr. — Paraguay.
- APICALIS Hendel, 1928:368. Type-locality: "Bolivia". Distr. — Bolivia.
- FUSCOAPICALIS Hering, 1942b:288, fig. 11 (wing). Type-locality: Argentina, Salta. Distr. — Argentina (Salta).
- GEPHYRIAE (Hendel), 1914b:71, pl. 3, fig. 63 (wing) (*Euaresta*). Type-locality: Peru, Mamara. Distr. — Peru (Mamara, Querobamba). Ref. — Hering, 1941a:156.
- MEXICANA (Wiedemann), 1830:511 (*Trypeta*). Type-locality: "Mexico". Distr. — U.S.A. (Florida, Texas), Bahama Is., Mexico, Cuba, Jamaica, Puerto Rico, West Indies. Ref. — Benjamin, 1934:51, fig. 36, A-G (head, antenna, wings, ♂ genitalia, ovipositor).

- melanogaster* Loew, 1862b:90, pl. 2, fig. 24 (wing) (*Trypeta*). Type-locality: "Cuba".
- audax* Giglio-Tos, 1893:9 (*Euaresta*). Type-locality: Mexico, Tuxpango. Ref. — Giglio-Tos, 1895:55, fig. 22 (wing).
- plesia* Curran, 1928:71, fig. 29 (wing) (*Euaresta*). Type-locality: Puerto Rico, Cuamo Springs.
- SIGNIFERA Hering, 1937:300, fig. 5 (wing). Type-locality: Costa Rica, 8 kilometers west of San José, at Farm La Caja. Distr. — Costa Rica (San José).
- SOBRINATA (Wulp), 1900:425, unnumbered text-fig. (wing) (*Euaresta*). Type-locality: Mexico, Guerrero, Xucumanatlán. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:246.
- TENUIS (Loew), 1873:316, pl. 10, fig. 29 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — Brazil.
- TRINOTATA Bates, 1934:16, fig. 6 (wing). Type-locality: Virgin Is., St. Thomas. Distr. — Virgin Is. (St. Thomas).

#### Genus EPOCHRINOPSIS Hering

- EPOCHRINOPSIS Hering, 1939:168. Type-species, *bicolorata* Hering (orig. des.). *Epochrinopsis*, subg. *Epochrella* Hering, 1961:2. Type-species, *rivellioides* Hering (orig. des.). N. SYN.
- BICOLORATA Hering, 1939:169, fig. 4 (wing). Type-locality: Bolivia, Cuesta de Cillunticara. Distr. — Bolivia (Cillunticara).
- RIVELLIROIDES Hering, 1961:2, fig. 1 (wing). Type-locality: Bolivia, Yungas de Arepucho and Sihuenas. Distr. — Bolivia.

#### Genus EUARESTA Loew

- EUARESTA Loew, 1873:296. Type-species, *Trypeta festiva* Loew (Coquillett, 1910:540).
- Camaromyia* Hendel, 1914a:95 (1914b:63). Type-species, *Trypeta bullans* Wiedemann (orig. des.).
- Ref. — Aczél, 1952c:147 (revision, Neotropical species).
- BELLA (Loew), 1873:311, pl. 10, fig. 23 (wing) (*Trypeta*). Type-locality: U.S.A., Washington and New York. Distr. — U.S.A. (many localities), Mexico, Bahama Is., Barbados. Ref. — Quisenberry, 1950:34, fig. 2, B, fig. 3, E, J (wing, antenna, palpus).
- BELLULA Snow, 1894:172. Type-locality: U.S.A., Arizona. Distr. — U.S.A. (many localities), Mexico (Guaymas, Puerto Refugio, San Lorenzo I., and Mulege, all Gulf of California). Refs. — Quisenberry, 1950:30, fig. 2, D, fig. 3, D, I (wing, antenna, palpus); Foote, 1962:173.
- BULLANS (Wiedemann), 1830:506 (*Trypeta*). Type-locality: Uruguay, Montevideo. Distr. — U.S.A. (many localities), Peru, Chile, Argentina, Brazil, Uruguay. Ref. — Aczél, 1952c:155, text-figs. 1-10, pl. 1, figs. 1-2 (head, ♂ genitalia, ovipositor, wing).
- rufa* Macquart, 1843:385 (separate, p. 228), pl. 31, fig. 9 (wing) (*Acinia*). Type-locality: "Chile".
- meleagris* Schiner, 1868:272 (*Tephritis*). Type-locality: "Chile".



- MERIDIONALIS Aczél, 1952c:158, text-figs. 11-17, pl. 1, figs. 3-4 (head, fore femora of ♂ and ♀, ovipositor, ♂ genitalia, wing). Type-locality: Argentina, Rio Negro, Choele-Choele Is. Distr. — Argentina (Rio Negro, Mendoza, Neuquén, Córdoba).
- PHILODEMA (Hendel), 1914b:63, pl. 3, fig. 53 (wing) (*Camarmomyia*). Type-locality: Chile, Talcahuano. Distr. — Chile (Angol, Santiago, Antofagasta), Argentina (many localities). Ref. — Aczél, 1952c:162, text-figs. 18-25, pl. 2, figs. 5-6 (head, ♂ genitalia, ovipositor, wing).
- TCBA (Lindner), 1928:29, fig. 1 (wing) (*Camarmomyia*). Type-locality: Argentina, Lapango, Tacaagle. Distr. — Peru, Chile, Uruguay, Argentina. Refs. — Hering, 1941a:166; Aczél, 1952c:165, text-figs. 26-33, pl. 2, figs. 7-8 (head, ♂ genitalia, ovipositor, wing).

#### Genus EUARESTOIDES Benjamin

- Trypanea*, subg. EUARESTOIDES Benjamin, 1934:57. Type-species, *Trypanea abstersa* Loew (orig. des.).
- ABSTERSUS (Loew), 1862a:221 (Cent. 2, n° 77) (*Trypanea*). Type-locality: "North America". Distr. — U.S.A. (eastern), Bahama Is. (many localities), ?Mexico, ?Cuba. Ref. — Foote, 1958:290, figs. 1-2, 6 (distribution, head, wing).
- ACUTANGULUS (Thomson), 1869:583 (*Trypanea*). Type-locality: U.S.A., California. Distr. — U.S.A. (western), northern Mexico (Tamaulipas, Juárez). Ref. — Foote, 1958:291, figs. 1, 3, 7, (distribution, head, wing).
- DREISBACHI Foote, 1958:293, figs. 5, 9 (head, wing). Type-locality: Mexico, Jalisco, La Primavera. Distr. — Mexico (Hidalgo, Durango, Jalisco, Guadalajara).
- EUGENIA (Wulp), 1900:427, unnumbered text-fig. (wing) (*Urellia*). Type-locality: Mexico, Guerrero, Chilpancingo and Amula. Distr. — Mexico, Peru (Cuzco, valley of Lares, Mamara, Arequipa), Chile. Ref. — Foote, 1965b:247.

#### Genus EUARESTOPSIS Hering

- EUARESTOPSIS Hering, 1937:299. Type-species, *paupera* Hering (orig. des.).
- PAUPERA Hering, 1937:299, fig. 3 (wing). Type-locality: Costa Rica, San José. Distr. — Costa Rica (San José).

#### Genus EUTRETA Loew

- Icaria* Schiner, 1868:276. Type-species, *Trypanea sparsa* Wiedemann (orig. des.; preocc. Saussure, 1853).
- EUTRETA Loew, 1873:276. Type-species, *Trypanea sparsa* Wiedemann (Coquillett, 1910:543).
- Eutreta*, subg. *Phasmatocephala* Hering, 1937:297. Type-species, *rhinophora* Hering (orig. des.).
- ACZELI Lima, 1954b:175, figs. 1-4 (antenna, ovipositor, spermatheca, wing). Type-locality: unknown.
- APICATA Hering, 1935:225. Type-locality: "Costa Rica". Distr. — Costa Rica.

- BACCHARIS (Coquillett), 1894:73 (*Trypeta*). Type-locality: U.S.A., southern California. Distr. — U.S.A. (several localities), northern Mexico.
- DISTINCTA (Schiner), 1868:276 (*Icaria*). Type-locality: "South America". Distr. — Venezuela, Peru, Bolivia, Brazil. Ref. — Hering, 1941a: 149.
- FROSTI Hering, 1938b:415, fig. 12 (wing). Type-locality: Ecuador, Baños. Distr. — Ecuador (Baños).
- LUNULATA (Macquart), 1851:255 (separate, p. 282), pl. 26, figs. 3, 3a (adult dorsum, head) (*Platystoma*). Type-locality: Brazil, Vale Grande. Distr. — Brazil.
- MARGARITATA Hendel, 1914b:56. Type-locality: Mexico, Orizaba. Distr. — Mexico (Orizaba).
- PARASPARSA Blanchard, 1965:79, unnumbered text-fig. (gall). Type-locality: Argentina, Tucumán, Tafi Viejo. Distr. — Argentina (Tucumán).
- PATAGIATA Wulp, 1899:414, pl. 12, fig. 10 (wing). Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero), Costa Rica. Ref. — Foote, 1965b:241.
- RHINOPHORA Hering, 1937:297, fig. 6 (profile of head). Type-locality: Costa Rica, San José. Distr. — Costa Rica (San José).
- SPARSA (Wiedemann), 1830:492 (*Trypeta*). Type-locality: unknown [New World]. Distr. — U.S.A. (many localities), Mexico (n. Sonora, D.F., Guerrero, Morelos, Veracruz, Orizaba).
- XANTHOCHAETA Aldrich, 1923:261. Type-locality: Honolulu, Hawaii, from a specimen introduced from Mexico and established in Hawaii. Distr. — Mexico, ?Guatemala; introduced to Hawaii to control *Lantana*.

#### Genus GERRHOCERAS Hering

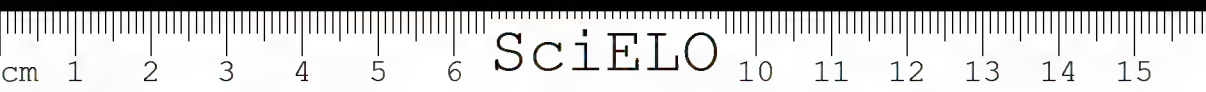
- GERRHOCERAS Hering, 1941b:474. Type-species, *paradoxa* Hering (orig. des.). Ref. — Aczél, 1954a:73 (in key).
- PARADOXA Hering, 1941b:475, figs. 1-2 (wing, scutellum). Type-locality: Bolivia, Coroico. Distr. — Bolivia (Coroico).

#### Genus HAMOUCHAETA Blanchard

- HAMOUCHAETA Blanchard, 1929:458. Type-species, *ogloblini* Blanchard (orig. des.).
- OGLOBLINI Blanchard, 1929:458, figs. 1-10 (head, antenna, palpus, wing, ovipositor). Type-locality: Argentina, Misiones, Loreto. Distr. — Argentina (Misiones).

#### Genus HAYWARDINA Aczél

- HAYWARDINA Aczél, 1951b:258. Type-species, *Tomoplagia cuculi* Hendel (orig. des.).
- CUCULI (Hendel), 1914b:35 (*Tomoplagia*). Type-locality: Argentina, Tucumán. Distr. — Argentina (Tucumán). Ref. — Aczél, 1951b: 259, text-figs. 1-14, pl. 1, A (head, thorax, wing, abdomen, ovipositor, ♂ genitalia).



# Genus HEXACHAETA Loew

HETSCHKOMYIA Hendel, 1914a:86 (1914b:33). Type-species, *maculipennis* Hendel (orig. des.).

*Brachytes* Hendel, 1914b:33 and explanation of plates following p. 84 (preoccupied Westwood, 1842). *Nomen nudum*.

MACULIPENNIS Hendel, 1914b:33, pl. 2, fig. 23 (wing). Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco). Ref. — Hering, 1941a:143.

## Genus HETSCHKOMYIA Hendel

HEXACHAETA Loew, 1873:219. Type-species, *Trypeta eximia* Wiedemann (Coquillett, 1910:552).

Ref. — Lima, 1953c, 1954a (keys).

AMABILIS (Loew), 1873:219 (*Trypeta*). Type-locality: "Mexico". Distr. — Mexico (northern Yucatán), south to Peru (Rosalina and Urubamba River) and Brazil (São Paulo). Refs. — Hering, 1941a:135; Lima & Leite, 1952:299; Lima, 1953b:153, figs. 3, 4, 7, 8, 11, 12 (wing, ♂ genitalia, ovipositor, spermatheca).

*decolorata* Lindner, 1928:26 (as *amabilis* "form"). Type-locality: Bolivia, Rio Tucabaca.

BARBIELLINII Lima, 1935a:244, pl. 3, figs. 9, 10, pl. 4, figs. 3-6 (wings, ♀ abdomen, ovipositor). Type-locality: Brazil, São Paulo. Distr. — Brazil (Bahia, Minas Gerais, Guanabara, Rio de Janeiro, São Paulo). Ref. — Lima & Leite, 1952:301, figs. 3-5, 25-27 (♂ genitalia, ovipositor).

ssp. ITATIAENSIS Lima & Leite, 1952:302, figs. 6, 7, 28, 29, 48, 49 (♂ genitalia, ovipositor, wing). Type-locality: Brazil, Rio de Janeiro, Itatiaia.

BONDARI Lima & Leite, 1952:304, figs. 9, 10, 31, 32, 46 (♂ genitalia, ovipositor, wing). Type-locality: Brazil, Bahia. Distr. — Brazil (Bahia).

COLUMBIANA Lima, 1953c:560, pl. 1, fig. 6, pl. 3, fig. 19 (wing, ♂ genitalia). Type-locality: Colombia, Cundinamarca. — Distr. — Colombia (Cundinamarca).

CRONIA (Walker), 1849:1038 (*Trypeta*). Type-locality: "Brazil". Distr. — Brazil (Bahia: Ilhéus). Refs. — Lima & Leite, 1952:305, figs. 11, 12, 33, 34 (♂ genitalia, ovipositor); Foote, 1964b:320.

ssp. SPITZI Lima & Leite, 1952:305, figs. 13, 14, 35, 36 (♂ genitalia, ovipositor). Type-locality: "Brazil".

DINIA (Walker), 1849:1040 (*Trypeta*). Type-locality: "Jamaica". Distr. — Jamaica. Refs. — Lima & Leite, 1952:302; Lima, 1953c:565, pl. 2, figs. 13-14 (entire fly, wing); Foote, 1964b:321.

ENDERLEINI Lima, 1935a:241, pl. 3, figs. 10-13 pl. 5, figs. 10, 17 (wing, ovipositor). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo). Ref. — Lima, 1953c:561, pl. 1, figs. 2, 8, pl. 3, fig. 21, pl. 4, fig. 24, pl. 5, fig. 29 (wing, ♂ genitalia, spermatheca, ♀ abdomen, ovipositor).

EXIMIA (Wiedemann), 1830:477 (*Trypeta*). Type-locality: "Surinam". Distr. — Mexico, south to Peru (Rosalina, Urubamba River, Vilcanota), British Guiana and Surinam, south to Brazil (Guanabara). Refs.

- Hering, 1941a:135; Lima, 1953c:563, pl. 1, fig. 3, pl. 2, figs. 15-18, pl. 3, fig. 20, pl. 4, figs. 26, 27, pl. 5, figs. 31, 32 (wing, ♂ genitalia, ovipositor).
- fasciventris* Macquart, 1851:264 (separate, p. 291), pl. 27, fig. 3 (wing) (*Tephritis*). Type-locality: "Brazil".
- lutescens* Walker, 1857:229 (*Trypeta*). Type-locality: Brazil, Amazon River valley. Refs. — Hardy, 1959:216; Foote, 1964b:322.
- sinica* Walker, 1857:229 (*Trypeta*). Type-locality: "China" (error: probably Amazon River valley of Brazil). Refs. — Hardy, 1959:223; Foote, 1964:324.
- aegiphilae* Lima, 1935a:241, pl. 2, figs. 6-7, pl. 5, figs. 5, 12, 14-16 (wings, ♂ genitalia, ovipositor). Type-locality: Brazil, Guanabara, Rio de Janeiro, Santana de Macacu. Ref. — Lima & Leite, 1952:303.
- FALLAX Lima, 1954a:280, pl. 1, fig. 4, pl. 2, fig. 8, pl. 3, fig. 12, pl. 5, fig. 22, pl. 6, fig. 28 (wing, abdomen, ♂ genitalia, ovipositor). Type-locality: Panama, Canal Zone, Cano Saddle, Gatun Lake. Distr. — Panama (Canal Zone; Barro Colorado I., Cano Saddle).
- HOMALURA Hendel, 1914b:25. Type-locality: Peru, Meshagua, Urubamba River and Paraguay. Distr. — Peru (Meshagua), Brazil, Paraguay. Refs. — Hering, 1941a:135; Lima & Leite, 1952:300, figs. 2, 24 (male genitalia).
- MAJOR (Macquart), 1847:109 (separate, p. 93), pl. 6, fig. 6 (wing) (*Tephritis*). Type-locality: "Brazil". Distr. — Brazil. Ref. — Lima & Leite, 1952:303, figs. 8, 30 (♂ genitalia).
- socialis* Wiedemann of Lima, 1935a:249.
- MONOSTIGMA Hendel, 1914b:24, pl. 1, fig. 16 (wing). Type-locality: Peru, Meshagua, Urubamba River and Bolivia, Mapiri. Distr. — Peru (Meshagua), Bolivia (Mapiri), Brazil (Santa Catarina). Refs. — Lima & Leite, 1952:306, figs. 17, 19, 20, 39, 41, 43, 45, 52 (♂ genitalia, ovipositor, wing); Lima, 1954a:278, pl. 2, figs. 9, 10, pl. 4, figs. 24, 25 (abdomen, ♂ genitalia).
- NIGRIPES Hering, 1938b:414. Type-locality: Brazil, Santa Catarina, Nova Teutônia, Córrego Itá. Distr. — Brazil (Santa Catarina).
- OBLITA Lima, 1954a:280, pl. 1, fig. 2, pl. 2, fig. 5, pl. 3, fig. 12, pl. 4, fig. 19, pl. 6, fig. 31 (wing, abdomen, ♂ genitalia, ovipositor). Type-locality: Panama, Canal Zone, Cano Saddle, Gatun Lake. Distr. — Panama (Canal Zone), Venezuela (El Valle).
- OBSCURA Hendel, 1914b:25 (as *amabilis* var.). Type-locality: Peru, Rosalina, Urubamba River and Paraguay. Distr. — U.S.A. (Texas), Panama (La Campana, Arraijau, El Cermeño), Trinidad (near Teterson), Peru, Brazil, Paraguay. Refs. — Hering, 1941a:136; Lima & Leite, 1952:300, figs. 1, 23 (♂ genitalia); Lima, 1953b: figs. 2, 6, 9, 10 (wing, ♂ genitalia, ovipositor, spermatheca).
- obscura*, error.
- OCULATA Hendel, 1914b:23, 26 (as *amabilis* var.). Type-locality: Peru, Rosalina. Distr. — Peru (Rosalina).
- PARVA Lima, 1954a:279, pl. 1, fig. 3, pl. 2, fig. 6, pl. 3, fig. 11, pl. 4, fig. 20, pl. 6, fig. 26 (wing, abdomen, ♂ genitalia, ovipositor). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).



- QUINQUEFASCIATA (Walker), 1837:357 (*Tephritis*). Type-locality: "South America". Distr. — "South America". Ref. — Foote, 1964b:323.
- aex* Walker, 1849:1037 (*Trypeta*). Type-locality: "Brazil". Refs. — Lima & Leite, 1952:307, figs. 21, 42 (♂ genitalia); Foote, 1964b:317.
- SEABRAI Lima, 1953c:562, pl. 1, figs. 4, 10, pl. 2, fig. 22, pl. 4, fig. 25, pl. 6, fig. 30 (wing, spermatheca, ovipositor, ♂ genitalia). Type-locality: Brazil, Espírito Santo, Linhares. Distr. — U.S.A. (Texas), Guatemala (Cayuga), Panama, Brazil (Espírito Santo).
- SHANNONI Lima, 1953b:154, figs. 1, 5 (wing, ovipositor tip). Type-locality: Brazil, Amazonas, Esperança. Distr. — Brazil (Amazonas).
- SOCIALIS (Wiedemann), 1830:491 (*Trypeta*). Type-locality: "Brazil". Distr. Mexico, Paraguay, Brazil (São Paulo). Ref. — Lima & Leite, 1952:306, figs. 15-16, 37, 38, 51 (♂ genitalia, ovipositor, wing).
- SPLENDIDA (Giglio-Tos), 1893:10 (*Blepharoneura*). Type-locality: "Mexico". Distr. — Mexico, Costa Rica (Río Sucio). Ref. — Giglio-Tos, 1895:58, fig. 20 (wing).
- VALIDA Lima, 1954a:280, pl. 1, fig. 1, pl. 2, fig. 7, pl. 3, fig. 17, pl. 4, fig. 18, pl. 6, fig. 32 (wing, abdomen, ♂ genitalia, ovipositor). Type-locality: Panama, La Campana. Distr. — Panama (La Campana; Cano Saddle, Gatun Lake and Barro Colorado I., both Canal Zone), Venezuela (Rancho Grande).
- VENEZUELANA Lima, 1953c:561, pl. 1, figs. 1, 7, pl. 4, fig. 23, pl. 5, fig. 28 (wing, spermatheca, ovipositor). Type-locality: Venezuela, El Valle, near Caracas. Distr. — Venezuela (El Valle).
- ZETEKI Lima, 1953c:563, pl. 1, fig. 5 (wing). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).

#### Genus HEXARESTA Hering

- HEXARESTA Hering, 1941c:18. Type-species, *juanita* Hering (orig. des.).
- JUANITA Hering, 1941c:19, fig. 15 (wing). Type-locality: Surinam, "bezirk Paramaribo". Distr. — Surinam (Paramaribo).

#### Genus HOMOEOTHRIX Hering

- HOMOEOTHRIX Hering, 1944a:7 (as *Homoeothrix*, emended by Hering, 1947a:7). Type-species, *Euribia lindigi* Hendel (orig. des.).
- LINDIGI (Hendel), 1914b:68, pl. 3, fig. 58 (wing) (*Euribia*). Type-locality: "Venezuela". Distr. — Venezuela.

#### Genus ICTERICODES Hering

- ICTERICODES Hering, 1942a:6. Type-species, *Trypeta japonica* Wiedemann (orig. des.).
- Ictericodes*, authors, not Loew.
- Ref. — Aczél, 1951a:120 (remarks).
- APICALIS (Coquillett), 1904b:96 (*Ictericodes*). Type-locality: Nicaragua, San Marcos. Distr. — Mexico (Orizaba), Nicaragua (San Marcos).
- lunata* Hendel, 1914b:61, pl. 3, fig. 50 (wing) (*Ictericodes*). Type-locality: Mexico, Orizaba.

- CHRISTOPHE (Bates), 1933a:165, fig. 1 (wing) (*Icterica*). Type-locality: Haiti, Port au Prince. Distr. — Haiti (Port au Prince).
- COMETA (Malloch), 1933:272, pl. 3, fig. 14 (wing) (*Icterica*). Type-locality: Argentina, Buenos Aires, San Isidro. Distr. — Argentina (Buenos Aires).
- LICHTENSTEINI (Wiedemann), 1830:497 (*Trypeta*). Type-locality: "Mexico". Distr. — Mexico.
- STROBELIOIDES (Hendel), 1914b:62 (*Icterica*). Type-locality: Paraguay, San Bernardino. Distr. — Argentina (San José), Paraguay (San Bernardino).

#### Genus ISCHYROPTERON Bigot

- ISCHYROPTERON Bigot, 1889a:xxix. Type-species, *nigrocaudatum* Bigot (mon.)
- Calopteromyia* Bigot, 1889b:xciii (unjustified nom. nov. for *Ischyropteron* Bigot). Type-species, *Ischyropteron nigrocaudatum* Bigot (aut.). *Ischyropteron*, error or emendation.
- NIGROCAUDATUM Bigot, 1889a:xxx. Type-locality: Brazil, Rio de Janeiro, Teresópolis. Distr. — Brazil (Rio de Janeiro).

#### Genus LAMPROXYNA Hendel

- LAMPROXYNA Hendel, 1914a:96 (1914b:64). Type-species, *nitidula* Hendel (orig. des.).
- NITIDULA Hendel, 1914b:64, pl. 3, fig. 54 (wing). Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco), Bolivia (Illimani). Ref. — Hering, 1941a:154.
- TITSCHACKI Hering, 1941a:154, pl. 1, fig. 4 (wing). Type-locality: Peru, Tayapampa. Distr. — Peru (Tayapampa), Bolivia (Hichucota, Cordillera Real). Ref. — Hering, 1961:4.

#### Genus LAMPROXYNELLA Hering

- LAMPROXYNELLA Hering, 1941a:163. Type-species, *Euribia heliodes* Hendel (orig. des.).
- Refs. — Hering, 1942a:11 (key); Aczél, 1952b:276, 1953c:365.
- BULLOCKI (Malloch), 1933:293, pl. 6, fig. 7 (wing) (*Trypanea*). Type-locality: Chile, San Rosendo. Distr. — Chile (Angol).
- DYSCOLA (Hendel), 1914b:68, pl. 3, fig. 59 (wing) (*Euribia*). Type-locality: Bolivia, Yungas Road. Distr. — Bolivia (Yungas). *discola*, error or emendation.
- EUARESTINA (Hendel), 1914b:69, pl. 3, fig. 61 (wing) (*Euribia*). Type-locality: Chile, Arica. Distr. — Chile (Arica).
- FUCATELLA (Hendel), 1914b:68 (*Euribia*). Type locality: Bolivia, La Paz. Distr. — Bolivia (La Paz), Argentina (Rio Negro: Bariloche, L. Correntoso).
- HELIODES (Hendel), 1914b:69, pl. 3, fig. 60 (wing) (*Euribia*). Type-locality: Peru, Mamara and Bolivia, Guaqui, Lake Titicaca. Distr. — Bolivia (Guaqui), Peru (Palco, Mamara), Chile (Puerto Blest, Angol),

Argentina (Rio Negro: L. Correntoso). Refs. — Hering, 1941a: 164; Hering, 1942a:12.

SEPARATA (Malloch), 1933:294, pl. 6, fig. 8 (wing) (*Trypanea*). Type-locality: Argentina, Buenos Aires. Distr. — Argentina (Buenos Aires).

#### Genus LILLOACIURA Aczél

LILLOACIURA Aczél, 1953a:191. Type-species, *curvinervis* Aczél (orig. des.).

CURVINERVIS Aczél, 1953a:191, figs. 56, 57, pl. 8, X (head, antenna, wing). Type-locality: Argentina, Mendoza, Cacheuta. Distr. — Argentina (Mendoza).

#### Genus LUCUMAPHILA Stone

LUCUMAPHILA Stone, 1939b:340. Type-species, *sagittata* Stone (orig. des.). Ref. — Stone, 1939b (revision).

ACIDUSA (Walker), 1849:1014 (*Trypeta*). Type-locality: "Jamaica". Distr. — Jamaica. Ref. — Stone, 1939b:349, fig. 16 (wing).

DENTATA Stone, 1939b:343, figs. 2, 11 (ovipositor, wing). Type-locality: Mexico, Jalisco, Tequila. Distr. — U.S.A. (Texas), Mexico (Jalisco).

HAMADRYAS Stone, 1939b:345, figs. 4, 15 (ovipositor, wing). Type-locality: Panama, La Campana. Distr. — Panama (La Campana).

HAMATA (Loew), 1873:229, pl. 11, fig. 22 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — Panama (Canal Zone: Balboa and Barro Colorado I.; La Campana), Brazil ("Amazon River"). Ref. — Stone, 1939b:349, figs. 6, 13 (ovipositor, wing).

HAMBLETONI (Lima), 1934a:519, pl. 67, fig. 23, pl. 74, fig. 58, text-fig. 20 (wing, ovipositor) (*Anastrepha*). Type-locality: Brazil, Minas Gerais, Viçosa. Distr. — Brazil (Minas Gerais). Ref. — Stone, 1939b:343.

LONGICAUDA (Lima), 1934a:525, pl. 68, fig. 25, pl. 74, fig. 53, text-fig. 23 (wing, ovipositor) (*Anastrepha*). Type-locality: Brazil, Amazonas, Rio Negro, Uaupés (= São Gabriel). Distr. — Brazil (Amazonas). Ref. — Stone, 1939b:347.

LUEDERWALDTI (Lima), 1934a:510, pl. 66, fig. 18, pl. 76, fig. 67, text-figs. 15-16 (wing, ovipositor, ♂ genitalia) (*Anastrepha*). Type-locality: Brazil, São Paulo, Ipiranga and Alto da Serra. Ref. — Stone, 1939b:342.

OBSCURA (Aldrich), 1925:5 (*Anastrepha*). Type-locality: Trinidad, Maraval. Distr. — Trinidad, Brazil. Ref. — Stone, 1939b:343, figs. 1, 10 (ovipositor, wing).

PROCURVATA (Blanchard), 1961:308, figs. 1a-d (wing, ovipositor) (*Anastrepha*). Type-locality: Argentina, Misiones, Zaimán, Estación Experimental I.N.T.A. Distr. — Argentina (Misiones).

SAGITTATA Stone, 1939b:347, figs. 5, 14 (ovipositor, wing). Type-locality: Mexico, Cuernavaca. Distr. — U.S.A. (Texas), Mexico, Panama (Canal Zone: Balboa).

URICHI (Greene), 1934:159, pl. 22, fig. 1 (wing) (*Anastrepha*). Type-locality: "Trinidad". Distr. — Trinidad. Ref. — Stone, 1939b:345, figs. 3, 12 (ovipositor, wing).

ZERNYI (Lima), 1934a:524, pl. 62, figs. 2-3 (female, wing) (*Anastrepha*).  
Type-locality: "Brazil". Distr. — Brazil (Mato Grosso: Chapada dos Guimarães), Argentina (Misiones: Posadas; Corrientes: Bella Vista; Santa Fe). Ref. — Stone, 1939b:348.  
*parallelus* Wiedemann (part), 1830:515 (*Dacus*).

#### Genus MELANOTRYPANA Hering

MELANOTRYPANA Hering, 1944a:14. Type-species, *Acanthiophilus benoisti* Séguy (orig. des.).  
BENOISTI (Séguy), 1933:256, pl. 8, fig. 2 (wing) (*Acanthiophilus*). Type-locality: Ecuador, El Napo. Distr. — Ecuador (El Napo).

#### Genus MOLYNOCOELIA Giglio-Tos

MOLYNOCOELIA Giglio-Tos, 1893:11. Type-species, *lutea* Giglio-Tos (mon.).  
LUTEA Giglio-Tos, 1893:11. Type-locality: Mexico, Tuxpango. Distr. — Mexico (Tuxpango). Ref. — Giglio-Tos, 1895:60, fig. 23 (wing).

#### Genus NEOACANTHONEURA Hendel

NEOACANTHONEURA Hendel, 1914a:82 (1914b:32). Type-species, *magnipennis* Hendel (orig. des.).  
MAGNIPENNIS Hendel, 1914b:32. Type-locality: Peru, Callanga. Distr. — Peru (Callanga).

#### Genus NEOHEXACHAETA Lima

NEOHEXACHAETA Lima, 1953c:566. Type-species, *guatemalensis* Lima (orig. des.).  
GUATEMALENSIS Lima, 1953c:566, pl. 2, figs. 11-12 (♂ genitalia, wing). Type-locality: Guatemala, Cayuga. Distr. — Guatemala (Cayuga).

#### Genus NEORHABDOCHAETA Malloch

NEORHABDOCHAETA Malloch, 1941b:124. Type-species, *anduzei* Malloch (orig. des.).  
ANDUZEI Malloch, 1941b:124, figs. 1-3 (head, wing, ♂ genitalia). Type-locality: Venezuela, Carabobo, Valle Seco. Distr. — Venezuela (Carabobo).

#### Genus NEORHAGOLETIS Hendel

NEORHAGOLETIS Hendel, 1914a:91 (1914b:30). Type-species, *latifrons* Hendel (orig. des.).  
LATIFRONS Hendel, 1914b:31, pl. 1, fig. 21 (wing). Type-locality: Bolivia, Cordillera. Distr. — Bolivia (Cordillera).

#### Genus NEOTEPHRITIS Hendel

NEOTEPHRITIS Hendel, 1935:54. Type-species, *Trypeta finalis* Loew (orig. des.).



- ABERRANS (Schiner), 1868:273 (*Oxyphora*). Type-locality: "Colombia". Distr. — Venezuela, Colombia.
- BRUESI (Bates), 1933a:168, fig. 2 (wing) (*Tephritis*). Type-locality: Jamaica, Newton. Distr. — Jamaica (Newton).
- CANCELLATA (Wulp), 1900:420, pl. 12, fig. 25 (wing) (*Tephritis*). Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:244.
- FINALIS (Loew), 1862a:222 (Cent. 2, n° 78) (*Trypeta*). Type-locality: U.S.A., California. Distr. — U.S.A. (many localities), Mexico (Durango, Jalisco, Guerrero, Veracruz, Guadalajara).
- MUNDELLI (Lima), 1936:158, pl. 1, figs. 1-4, pl. 2, figs. 5-7 (wings, ♂ genitalia, ovipositor) (*Tephritis*). Type-locality: Brazil, São Paulo. Distr. — Brazil (São Paulo).
- QUADRATA (Malloch), 1933:277, pl. 4, fig. 10 (wing) (*Trypanea*). Type-locality: Uruguay, Montevideo. Distr. — Brazil, Uruguay. Ref. — Hering, 1942a:15.
- RUFULA (Wulp), 1900:424, unnumbered text-fig. (wing) (*Euaresta*). Type-locality: Mexico, Veracruz, Atoyac. Distr. — Mexico (Veracruz). Ref. — Foote, 1965b:246.
- STAMINEA (Wulp), 1900:419, pl. 12, fig. 23 (wing) (*Tephritis*). Type-locality: Mexico, Veracruz, Orizaba. Distr. — Mexico (Veracruz). Ref. — Foote, 1965b:244.
- THAUMASTA (Hering), 1942a:15, fig. 9 (wing) (*Acanthiophilus*). Type-locality: "Ciudad" (?Mexico).

#### Genus OEDICARENA Loew

- OEDICARENA Loew, 1873:247. Type-species, *Trypeta tetanops* Loew (orig. des.).
- TETANOPS (Loew), 1873:245, pl. 11, fig. 15 (wing) (*Trypeta*). Type-locality: "Mexico". Distr. — Mexico. Ref. — Foote, 1960d:114.

#### Genus OSTRACOCOELIA Giglio-Tos

- OSTRACOCOELIA Giglio-Tos, 1893:10. Type-species, *mirabilis* Giglio-Tos (mon.).
- MIRABILIS Giglio-Tos, 1893:11. Type-locality: "Mexico". Distr. — Mexico (Guadalajara, Guerrero, Veracruz, Tampico). Ref. — Giglio-Tos, 1895:44, fig. 13 (wing).

#### Genus PARACANTHA Coquillett

- PARACANTHA Coquillett, 1899:264. Type-species, *Trypeta culta* Wiedemann (orig. des.).
- Carphotricha*, authors, not Loew.
- Refs. — Hering, 1940b (key, Neotropical species); Aczél, 1952a (morphology; key, Neotropical species).
- AUSTRALIS Malloch, 1933:271, pl. 3, fig. 13 (wing). Type-locality: Argentina, Misiones, Bonpland. Distr. — Uruguay (Colonia Suiza), Argentina (Misiones).
- culta* (Wiedemann), 1830:486, 680 (*Trypeta*, as *cutta*, p. 486). Type-locality: U.S.A., Savannah, Georgia. Not Neotropical.

- CULTARIS** (Coquillett), 1894:72 (*Trypeta*). Type-locality: U.S.A., southern California. Distr. — U.S.A. (many localities), Mexico (Durango, Jalisco, Guerrero, Veracruz), Guatemala, Costa Rica ?Haiti. Refs. — Malloch, 1941a:36, fig. 2 (apex of wing); Aczél, 1952a:221, text-fig. 3, pl. 1, B (head, ♂ genitalia, ovipositor, wing).  
*culta* Wiedemann of Loew, 1862a:58, pl. 2, fig. 29 (wing).  
*culta* Wiedemann of Wulp, 1899:405, pl. 2, fig. 30 (wing).  
*culturis*, error.
- DENTATA** Aczél, 1952a:224, text-fig. 4, pl. 1, C (head, femur, ovipositor, wing). Type-locality: Peru, Huancabamba. Distr. — Peru (Huancabamba).
- GENTILIS** Hering, 1940b:53. Type-locality: U.S.A., Wyoming, Hunter's Creek. Distr. — U.S.A. (many localities), Mexico (Orizaba, Guanajuato). Ref. — Aczél, 1952a:233, text-fig. 7, pl. 3, G-H (head, ovipositor, ♂ genitalia, wing).  
*elongata* Malloch, 1941a:41, fig. 8 (apex of wing) (as *mimetica* var.). Type-locality: U.S.A., New Mexico.  
*mexicana* Malloch, 1941a:41, fig. 10 (apex of wing). Type-locality: Mexico, Guanajuato.
- HAYWARDI** Aczél, 1952a:237, text-fig. 8, pl. 2, E (head, ovipositor, wing). Type-locality: Argentina, Salta, Cerro San Bernardo. Distr. — Argentina (Salta).
- MULTIPUNCTA** Malloch, 1941a:38, fig. 4 (apex of wing). Type-locality: "Peru". Distr. — Peru.
- RUFICALLOSA** Hering, 1937:301, fig. 2 (wing). Type-locality: Costa Rica, 8 km west of San José, at farm La Caja. Distr. — Costa Rica (San José).
- SOBRINA** Hering, 1940b:53, fig. 3 (wing). Type-locality: Costa Rica, 8 km west of San José at Farm La Caja. Distr. — Costa Rica (San José).

#### Genus PARASTENOPE Hendel

- PARASTENOPE** Hendel, 1914a:88 (1914b:27). Type-species, *arcuata* Hendel (orig. des.).
- Mesaraelia** Blanchard, 1929:461. Type-species, *elegans* Blanchard (orig. des.).
- Kartabia** Curran, 1934a:434. Type-species, *anastrephoides* Curran (orig. des.).  
 Ref. — Aczél, 1955c (morphology, key).
- ANASTREPHOIDES** (Curran), 1934a:434 (*Kartabia*). Type-locality: British Guiana, Bartica, Kartabo. Distr. — British Guiana (Kartabo).  
 Ref. — Aczél, 1955c:174, text-figs. 1-7, pl. 1, A (head, antenna, palpus, ♀ abdomen, ovipositor, wing).
- ARCUATA** Hendel, 1914b:27, pl. 1, fig. 20 (wing). Type-locality: Bolivia, Songo. Distr. — Bolivia (Songo).
- ELEGANS** (Blanchard), 1929:462, figs. 1-12 (head, palpus, antenna, legs, wing, thorax, abdomen) (*Mesaraelia*). Type-locality: Argentina, Misiones. Distr. — Argentina (Misiones).

- GUTTATA Aczél, 1955c: 179, text-figs. 8-14, pl. 1, B (head, antenna, palpus, ♀ abdomen, ovipositor, ♂ genitalia, wing). Type-locality: Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. — Brazil (São Paulo).
- MARCEITAE Bezzi & Tavares, 1916:155, fig. 1 (wing). Type-locality: Brazil, Rio de Janeiro, Nova Friburgo. Distr. — Brazil (Rio de Janeiro).
- MONTANA Aczél, 1955c:183, text-figs. 15-19, pl. 1, C (head, antenna, palpus, ♀ abdomen, wing). Type-locality: Argentina, Jujuy, Sierra Zapla. Distr. — Argentina (Jujuy).

#### Genus PAROXYNA Hendel

- PAROXYNA Hendel, 1927a:146. Type-species, *Trypeta tessellata* Loew (orig. des.).
- Ensina*, authors (part), not Robineau-Desvoidy.
- Stylia*, authors, not Robineau-Desvoidy.
- AESIA (Walker), 1849:1006 (*Trypeta*). Type-locality: Galapagos Is., St. James I. Distr. — Galapagos Is. (St. James I.). Ref. — Foote, 1964b:317.
- RASIFASCIATA Hering, 1941a:159, pl. 1, fig. 7 (wing). Type-locality: Peru, Suchabamba. Distr. — Peru (Suchabamba).
- BIGUTTA Hering, 1941a:160, pl. 1, fig. 2 (wing). Type-locality: Peru, Hacienda Huamuri. Distr. — Peru.
- BRASILIENSIS (Aczél), 1953b:279, text-figs. 3-5, pl. 20, B (head, palpus, ovipositor, wing) (*Trupanea*). Type-locality: Brazil, Anchieta [Guanabara or Espírito Santo (?)]. Distr. — Brazil (Guanabara or Espírito Santo).
- CASSARA (Walker), 1849:1026 (*Trypeta*). Type-locality: "Peru". Distr. — Peru. Ref. — Foote, 1964b:319.
- CLATHRATA (Loew), 1862b:80, pl. 2, fig. 5 (wing) (*Trypeta*). Type-locality: U.S.A., "Middle States". Distr. — U.S.A., Mexico (Guadalajara).
- CONSPERSA (Wulp), 1900:417, pl. 12, fig. 18 (wing) (*Ensina*). Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:243.
- mediana* Wulp, 1900:418, pl. 12, fig. 20 (wing) (*Ensina*). Type-locality: Mexico, Guerrero, Chilpancingo.
- CROCKERI Curran, 1934c:157, fig. 1 (wing). Type-locality: Galapagos Is., Indefatigable I. Distr. — Galapagos Is. (Is. of Albermale, Charles, James, So. Seymour, Jervis, Duncan).
- DESPECTA (Wulp), 1900:418, pl. 12, fig. 19 (wing) (*Ensina*). Type-locality: Mexico, Guerrero, Xucumanatlán. Distr. — U.S.A. (New Mexico), Mexico (Guerrero), ?Costa Rica.
- ENIGMA Hering, 1941a:161, pl. 1, fig. 6 (wing). Type-locality: Uruguay, "Buschental" (?). Distr. — Uruguay.
- EXTINCTA Hering, 1944a:11, fig. 8 (wing). Type-locality: Peru, Mamara. Distr. — Peru (Mamara).
- FIBULATA (Wulp), 1900:421, pl. 12, fig. 26 (wing) (*Tephritis*). Type-locality: Mexico, Orizaba. Distr. — Mexico (Orizaba). Ref. — Foote, 1965b:245.

- FLOCCOSA (Curran), 1928:73, fig. 31 (wing) (*Tephritis*). Type-locality: Virgin Is., St. John I. Distr. — Virgin Is. (St. John I.).
- FREYAE (Lindner), 1928:32, fig. 2 (wing) (*Trypanea*). Type-locality: Argentina, Sierra de Córdoba, mountain near La Falda. Distr. — Argentina (Córdoba).
- GUTTULARIS (Wulp), 1900:418, pl. 12, fig. 21 (wing) (*Ensina*). Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:244.
- LUCULENTA (Wulp), 1900:417, pl. 12, fig. 17 (wing) (*Ensina*). Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:243.
- OBSOLETA (Wulp), 1900:421, pl. 12, fig. 27 (wing) (*Tephritis*). Type-locality: Mexico, Veracruz, Orizaba. Distr. — Mexico (Veracruz). Ref. — Foote, 1965b:245.
- OPHELIA Hering, 1944a:12, fig. 3 (wing). Type-locality: "Mexico". Distr. — Mexico.
- SEMIFUSCA (Wulp), 1900:422, pl. 12, fig. 28 (wing) (*Tephritis*). Type-locality: Mexico, Durango, Ciudad. Distr. — Mexico (Mazatlán, Durango). Ref. — Foote, 1965b:245.
- intricata* Wulp, 1900:422, pl. 12, fig. 29 (wing) (*Tephritis*). Type-locality: Mexico, Durango, Ciudad.
- TAENIPENNIS Hering, 1941a:162, pl. 1, fig. 8 (wing). Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco).
- UMBRATA (Cresson), 1907:102, fig. 3 (wing) (*Tephritis*). Type-locality: Mexico, Guadalajara. Distr. — Mexico (Guadalajara).
- VENEZOLENSIS Hering, 1939:184, fig. 184 (wing). Type-locality: "Venezuela". Distr. — Venezuela.

#### Genus PHOBEMA Aldrich

- PHOBEMA Aldrich, 1925:7. Type-species, *atrox* Aldrich (orig. des.).
- ATROX Aldrich, 1925:7. Type-locality: Ecuador, Oriente, Baños. Distr. — Ecuador (Oriente).

#### Genus PLAUMANNIMYIA Hering

- PLAUMANNIMYIA Hering, 1938a:190. Type-species, *pallens* Hering (orig. des.).
- APICATA (Becker), 1919:195, pl. 17, fig. 5 (wing) (*Tephritis*). Type-locality: Ecuador, Riobamba, Tulcán, Troya. Distr. — Ecuador (Riobamba).
- COSTAEMACULATA Hering, 1940c:29. Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- PALLENS Hering, 1938a:190, fig. 3 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- RETICULATA (Hendel), 1914b:81, pl. 4, fig. 80 (wing) (*Trypanea*). Type-locality: Peru, valley of Lares, Cuzco, Tarma, Sicuaní, Arequipa, and Callabamba. Distr. — Peru, Bolivia (La Paz). Ref. — Hering, 1941a:158.



### Genus POLIONOTA Wulp

POLIONOTA Wulp, 1899:409. Type-species, *Acrotoxa mucida* Giglio-Tos (orig. des.).

*Polygonota*, error or emendation.

Ref. — Hering, 1953:7 (key).

BECKERI Hering, 1953:7, fig. 6 (wing). Type-locality: Guatemala, Quezaltenango. Distr. — Guatemala (Quezaltenango).

MAGNIPENNIS Hendel, 1914b:27. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia (Mapiri, Sarampiuni).

MUCIDA (Giglio-Tos), 1893:10 (*Acrotoxa*). Type-locality: "Mexico". Distr. — Mexico (Guerrero). Ref. — Giglio-Tos, 1895: 58, fig. 21 (wing).

RADIANS Wulp, 1899:410, pl. 12, figs. 2, 2a (wing, ♀ abdomen). Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:240.

### Genus POLYMORPHOMYIA Snow

POLYMORPHOMYIA Snow, 1894:165. Type-species, *basilica* Snow (mon.).

Aczél (1953a) combined this genus with *Pseudeutreta*, using the latter name in a subgeneric sense. The two genera should be considered as separate, however, since the characters that separate them are distinct and clearly of generic value.

Ref. — Aczél, 1953a (revision).

BASILICA Snow, 1894:164, pl. 7, fig. 1 (wing). Type-locality: Dominican Republic, San Domingo. Distr. — Cuba (Soledad, Trinidad Mountains), Dominican Republic, Puerto Rico (Naguabo).

PILOSULA Wulp, 1899:411, pl. 12, fig. 4 (wing). Type-locality: Mexico, Tabasco, Teapa. Distr. — Mexico (Atoyac, Veracruz, Tabasco). Ref. — Foote, 1965b:240.

TRIDENTATA (Hendel), 1914b:58, pl. 3, fig. 46 (wing) (*Pseudeutreta*). Type-locality: Peru, Callanga and Paraguay, Asunción. Distr. — Peru (Callanga), Paraguay (Asunción), Argentina (Lapango, Pilcomayo, Laguna Oca, Formosa), Ecuador (El Topo). Ref. — Aczél, 1953a: 173, text-figs. 41, 42, pl. 7, W (♂ genitalia, wing).

### Genus PROCECIDOCHARES Hendel

PROCECIDOCHARES Hendel, 1914a:91 (1914b:41, 42). Type-species, *Trypeta atra* Loew (orig. des.).

*Oedaspis*, authors, not Loew.

Ref. — Aczél, 1953a:125 (key, Neotropical species).

ATRA (Loew), 1862:219 (Cent. 2, n° 74) (*Trypeta*). Type-locality: U.S.A., New York. Distr. — U.S.A. (many localities), Mexico (northern Sonora, Chapingo). Ref. — Aldrich, 1929:7.

FLAVIPES Aldrich, 1929:5. Type-locality: Mexico, Baja California, Socorro I. Distr. — Mexico (Baja California).

MINUTA (Snow), 1894:164, pl. 6, fig. 2 (wing) (*Oedaspis*). Type-locality: U.S.A., Montana. Distr. — U.S.A., Mexico (Gulf of California). Ref. — Foote, 1962:176.

PLEURITICA Hendel, 1914b:43. Type-locality: Paraguay, San Bernardino. Distr. — Paraguay, San Bernardino.

UTILIS Stone, 1947:97. Type-locality: Mexico, Morelos, Cuernavaca. Distr. — Mexico (Morelos); introduced into and established in Hawaii and New Zealand for control of *Eupatorium adenophorum*.

#### Genus PROTENSINA Hendel

PROTENSINA Hendel, 1914a:95 (1914b:64). Type-species, *longiceps* Hendel (orig. des.).

BREVIOR Hennig in Hering, 1940a:12. Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco). Ref. — Hering, 1941a:153.

HYALIPENNIS Hennig in Hering, 1940a:13. Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco), Chile (Arica), Bolivia (La Paz). Ref. — Hering, 1941a:153.

LONGICEPS Hendel, 1914b:64. Type-locality: Peru, Cuzco and valley of Lares. Distr. — Peru (Cuzco, Valley of Lares). Ref. — Hering, 1940a:13, 1941a:152.

#### Genus PSEUDACROTAENIA Hendel

*Acrotaenia*, subg. PSEUDACROTAENIA Hendel, 1914a:98 (1914b:58). Type-species, *Carphotricha vespillo* Schiner (orig. des.).

APIATA (Wulp), 1899:415, pl. 12, fig. 12 (wing) (*Acrotaenia*). Type-locality: Mexico, Guerrero, Amula. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:242.

BREVIRADIATA (Hendel), 1914b:61 (*Acrotaenia*). Type-locality: Peru, Vilcanota. Distr. — Peru (Vilcanota). Ref. — Hering, 1941a:150.

COELESTIS (Hendel), 1914b:61, pl. 3, fig. 49 (wing) (*Acrotaenia*). Type-locality: Bolivia, Mapiri and San Carlos. Distr. — Bolivia (Mapiri, San Carlos), Brazil (Mato Grosso: Chapada dos Guimarães and Corumbá).

FORSTERI Hering, 1961:4, fig. 2 (wing). Type-locality: Bolivia, Mutun. Distr. — Bolivia (Mutun).

INCISA (Wulp), 1899:415, pl. 12, fig. 13 (wing) (*Acrotaenia*). Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:242.

PERTUSA Bates, 1934:14, fig. 5 (wing). Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica, Venezuela.

PSEUDOVESPILLO (Hendel), 1914b:60 (*Acrotaenia*). Type-locality: Not given [South America]. Distr. — Peru, Bolivia.

RICAVELATA (Hendel), 1914b:60, pl. 3, fig. 48 (wing) (*Acrotaenia*). Type-locality: Peru, Meshagua, Urubamba River, and Callanga. Distr. — Peru. Ref. — Hering, 1941a:150.

RUSTICA Bates, 1934:13, fig. 4 (wing). Type-locality: "Ecuador". Distr. — Ecuador.

VESPILLO (Schiner), 1868:275 (*Carphotricha*). Type-locality: "South America". Distr. — Peru (Pichis, mouth of Pachitea River), Venezuela, Bolivia (Mapiri, Sarampiuni, San Carlos, Chimate).

## Genus PSEUDEUTRETA Hendel

PSEUDEUTRETA Hendel, 1914a:86 (1914b:56). Type-species, *Trypeta adspersa* Wiedemann (orig. des.).

Aczél (1953a) has erred in considering these species to be congeneric with those of *Polymorphomyia*. See remarks under the latter genus.

Ref. — Aczél, 1953a:149 (key).

ADSPERSA (Wiedemann), 1830:487 (*Trypeta*). Type-locality: "Brazil". Distr. — Brazil.

ANTEAPICALIS Hendel, 1914b:57. Type-locality: Brazil, Rio Grande do Sul and Paraguay, Asunción. Distr. — Brazil (Rio Grande do Sul), Paraguay (Asunción), Argentina (many localities). Ref. — Aczél, 1953a:157, text-figs. 21-27, pl. 5, N (head and appendages, ♂ genitalia, abdomen, ovipositor, wing).

BACCHARIDIS (Kieffer & Jörgenson), 1910:370, fig. 6 (wing) (*Aciura*). Type-locality: Argentina, Mendoza: Pedregal, San Ignacio, and Chacras de Coria. Distr. — Argentina (Mendoza).

FALCIGERA (Kieffer & Jörgenson), 1910:371, fig. 7 (wing) (*Aciura*). Type-locality: Argentina, Mendoza: Pedregal, San Ignacio, and Chacras de Coria. Distr. — Argentina (Mendoza).

ILONAE (Aczél), 1953a:161, text-figs. 28-30, pl. 7, U (head, antenna, epanthrium, wing) (*Polymorphomyia*). Type-locality: Argentina, Tucumán, San Pedro de Colalao. Distr. — Argentina (Tucumán). N. COMB.

LIGULARIS Bates, 1933b:52, fig. 3 (wing). Type-locality: Bolivia, Sara. Distr. — Bolivia (Sara), Argentina (Misiones), Brazil (São Paulo). Ref. — Aczél, 1953a:163, text-figs. 31-33, pl. 5, O (head, abdomen, ♂ genitalia, wing).

NOBILIS (Aczél), 1953a:165, fig. 34 (head) (*Polymorphomyia*). Type-locality: Argentina, Santa Fe, Piquete. Distr. — Argentina (Santa Fe). N. COMB.

ORFILAI (Aczél), 1953a:168, text-figs. 35-38, pl. 5, P (head, ♂ genitalia, abdomen, wing) (*Polymorphomyia*). Type-locality: Argentina, Córdoba, Arguello. Distr. — Argentina (San Luis, Tucumán, Córdoba). N. COMB.

PARAGRANUM Hering, 1942a:4, fig. 5 (wing). Type-locality: Argentina, Salta, 2500 m. Distr. — Argentina (Salta, Jujuy, Tucumán, Mendoza, Santa Fe). Ref. — Aczél, 1953a:170, text-figs. 39, 40, pl. 7, V (head, abdomen, wing).

QUADRIGUTTA (Walker), 1852:386 (*Trypeta*). Type-locality: "South America". Distr. — "South America". Ref. — Foote, 1964b:323.

## Genus PSEUDODACUS Hendel

*Anastrepha*, subg. PSEUDODACUS Hendel, 1914a:97 (1914b:13). Type-species, *Anastrepha daciformis* Bezzi (orig. des.).

Ref. — Stone, 1939a (revision).

- BICOLOR** Stone, 1939a:288, text-fig. 4, pl. 27, fig. 4 (ovipositor, wing). Type-locality: U.S.A., Texas, Edinburg. Distr. — U.S.A. (Texas), Mexico (Morelos).
- DACIFORMIS** (Bezzi), 1909:283, fig. 2 (wing) (*Anastrepha*). Type-locality: Brazil, São Paulo. Distr. — Paraguay, Argentina, Bolivia, Brazil. Ref. — Stone, 1939a:286, text-fig. 3, pl. 27, fig. 3 (ovipositor, wing).
- MACRURUS** (Hendel), 1914b:16 (*Anastrepha*). Type-locality: Paraguay, San Bernardino. Distr. — Paraguay (San Bernardino), Argentina (Loreto, Misiones), Brazil (Bahia). Ref. — Stone, 1939a:285, text-fig. 2, pl. 27, fig. 2 (ovipositor, wing).
- PALLENS** (Coquillett), 1904a:35 (*Anastrepha*). Type-locality: U.S.A., Texas, Brownsville. Distr. — U.S.A. (Texas), Mexico (Tamaulipas, Yauatepec), Honduras (Tegucigalpa). Ref. — Stone, 1939a:283, text-fig. 1, pl. 27, fig. 1 (ovipositor, wing).

#### Genus PSEUDOEDASPIS Hendel

- PSEUDOEDASPIS** Hendel, 1914a:86 (1914b:44). Type-species, *biseta* Hendel (orig. des.).  
Ref. — Aczél, 1953a:179 (key).
- BISETA** Hendel, 1914b:44. Type-locality: Argentina, Rivadavia. Distr. — Argentina (Neuquén, Río Colorado, Vista Flores, Uspallata, Rivadavia). Ref. — Aczél, 1953a:179, text-figs. 64, 65, pl. 6, S (head, palpus, wing).
- MENDOZANA** Aczél, 1953a:182, text-figs. 62, 63, pl. 6, T (head, palpus, wing). Type-locality: Argentina, Mendoza, Chacras de Coria. Distr. — Argentina (Mendoza).
- OREIPLANA** (Kieffer & Jörgenson), 1910:434, fig. 58 (wing) (*Trypeta*). Type-locality: Argentina, Mendoza, "Cordillera". Distr. — Argentina (Mendoza).

#### Genus PSEUDOPHORELLIA Lima

- PSEUDOPHORELLIA** Lima, 1934c:139. Type-species, *maculata* Lima (orig. des.).
- MACULATA** Lima, 1934c:140, text-fig. 1, pl. 1, figs. 1, 3 (♂ genitalia, wing, abdomen). Type-locality: Brazil, Guanabara, Rio de Janeiro, Praia Vermelha, Escola Superior de Agricultura. Distr. — Brazil (Guanabara). Ref. — Lima, 1953a: fig. 4 (wing of holotype).
- STONEI** Lima, 1953a:151, figs. 1-3 (wing, ovipositor, spermatheca). Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).

#### Genus PSEUDOPOLIONOTA Lima

- PSEUDOPOLIONOTA** Lima, 1935b:200. Type-species, *radians* Lima (orig. des.).
- RADIANS** Lima, 1935b:202, figs. 1-5 (wing, ♀ abdomen, ovipositor, front and side views of head). Type-locality: Brazil, Guanabara, Rio de Janeiro, Corcovado, Paineiras. Distr. — Brazil (Guanabara).



### Genus PYRGOTOIDES Curran

PYRGOTOIDES Curran, 1934b:289. Type-species, *crassipes* Curran (orig. des.).  
 CRASSIPES Curran, 1934b:289, figs. 40, 57 (head, wing). Type-locality: "Panama". Distr. — Panama.

### Genus RHACHIPTERA Bigot

RHACHIPTERA Bigot, 1859:313. Type-species, *limbata* Bigot (mon.).  
*Percnoptera* Philippi, 1873:307. Type-species, *angustipennis* Philippi = *limbata* Bigot (mon.).  
*Eupterocalla* Brèthes, 1916:12: Type-species, *opazoi* Brèthes = *limbata* Bigot (orig. des.).  
 BIARCUATA Hendel, 1914b:54. Type-locality: Chile, Concepción. Distr. — Chile (Concepción).  
 LIMBATA Bigot, 1859:313. Type-locality: "Chile". Distr. — Bolivia (La Paz), Chile (Concepción), Argentina (Mendoza, San Luiz). Ref. — Stuardo Ortiz, 1929:345, figs. 80, 81 (description of galls, immature stages) (as *angustipennis*).  
*angustipennis* Philippi, 1873:306 (*Percnoptera*). Type-locality: "Chile".  
*opazoi* Brèthes, 1916:12, fig. 1 (wing) (*Eupterocalla*). Type-locality: Chile, La Serena.  
 PERCNOPTERA Hendel, 1914b:53, pl. 2, fig. 40 (wing). Type-locality: Chile, Taltal and Rancagua. Distr. — Chile.  
 VIRGINALIS Hering, 1942a:8, fig. 3 (wing). Type-locality: "Brazil". Distr. — Brazil.

### Genus RHAGOLETIS Loew

RHAGOLETIS Loew, 1862c:44. Type-species, *Musca cerasi* Linnaeus (mon.).  
 Ref. — Aczél, 1954a:76 (key, Neotropical species).  
 BLANCHARDI Aczél, 1954a:78, text-figs. 1-8, pl. 1, A (head, antenna, palpus, ♂ genitalia, ovipositor, ♀ abdomen, wing). Type-locality: Argentina, Salta, Arundel. Distr. — Argentina (Salta, Tucumán, La Caverna, Sierra de Córdoba).  
*ochraspis* Wiedemann of Blanchard in Hayward, 1942:32.  
 CONVERSA (Brèthes), 1919:43, fig. 10 (wing) (*Spilogrpha*). Type-locality: Chile, Río Blanco. Distr. — Chile (Río Blanco).  
 FERRUGINEA Hendel, 1927b:64. Type-locality: Brazil, Santa Cruz (?). Distr. — Argentina (Brazo Largo and San Miguel, Buenos Aires), Uruguay (Montevideo), Brazil (Pedras Altas, Rio Grande do Sul). Ref. — Aczél, 1951b:271, text-figs. 27-34, pl. 1, C (head, ♀ abdomen, ovipositor, ♂ genitalia, wing).  
 JUGLANDIS Cresson, 1920:65. Type-locality: U.S.A., Arizona, Huachuca Mts., Carr Canyon. Distr. — U.S.A. (several localities), Mexico highlands south to Durango. Ref. — Bus, 1966:490.  
 LYCOPERSELLA Smyth, 1960:16, figs. 1-3 (adult, wing, damage). Type-locality: Peru, Río Chicama, near Trujillo. Distr. — Peru.  
 MACQUARTH (Loew), 1873:267 (*Trypeta*; nom. nov. for *scutellaris* Macquart). Type-locality: Brazil, Goiás. Distr. — Brazil (Goiás).  
*scutellaris* Macquart, 1851:261 (separate, p. 288), pl. 26, fig. 15 (wing) (*Urophora*; preoc. Wiedemann, 1830). Type-locality: Brazil, Goiás.

- METALLICA (Schiner), 1868:265 (*Spilographa*). Type-locality: "South America". Distr. — Venezuela, Peru (Arequipa). Ref. — Hering, 1941a:142.
- NOVA (Schiner), 1868:264 (*Spilographa*). Type-locality: "Chile". Distr. — Chile, Peru. Ref. — Hering, 1941a:142.
- OCHRASPIS (Wiedemann), 1830:466 (*Ortalis*). Type-locality: "Brazil". Unrecognized.
- POMONELLA (Walsh), 1867:343, fig. 2 (adult dorsum) (*Trypeta*). Type-locality: U.S.A., Illinois. Distr. — U.S.A., (many localities), northern Mexico.
- PSALIDA Hendel, 1914b:30. Type-locality: Peru, Cuzco and Urubamba. Distr. — Peru. Ref. — Hering, 1941a:142.
- RHYTIDA Hendel, 1914b:30. Type-locality: Bolivia, La Paz, and Yungas Road. Distr. — Bolivia.
- STRIATELLA Wulp, 1899:408, pl. 11, fig. 30 (wing). Type-locality: Mexico, Guerrero, Amula. Distr. — U.S.A. (several localities), Mexico (Tlaxcala, Mexico, Guerrero). Ref. — Foote, 1965b:239.
- WILLINCKI Aczél, 1950:319, text-fig. 4, pl. 1, C (head, ovipositor, wing). Type-locality: Argentina, Neuquén, Villa Angostura. Distr. — Argentina (Neuquén).
- ZOQUI Bush, 1966:493, figs. 20, 29, 61, 78, 133, 196, 223 (ovipositor, head, abdomen, ♂, ♀ genitalia, wing, chromosomes). Type-locality: Mexico, Hidalgo, Zacualtipán. Distr. — Mexico (Hidalgo).

#### Genus RHAGOLETOIDES Foote

- RHAGOLETOIDES Foote, 1960c:145. Type-species, *Spilographa latifrons* Wulp (orig. des.).
- LATIFRONS (Wulp), 1899:407, pl. 11, fig. 26 (wing) (*Spilographa*). Type-locality: Mexico, Durango, Ciudad. Distr. — U.S.A. (Arizona), Mexico (Guerrero, Quaretero, Durango, Veracruz, Guadalajara, D.F., Puebla). Ref. — Foote, 1960c:146.
- obfuscata* Wulp, 1899:406, pl. 11, fig. 25 (wing) (*Spilographa*). Type-locality: Mexico, Guerrero, Omilteme.

#### Genus RHAGOLETOTRYPETA Aczél

- RHAGOLETOTRYPETA Aczél, 1950:313. Type-species, *xanthogastra* Aczél (orig. des.).
- Serpentinographa* Aczél, 1950:308. Type-species, *argentinensis* Aczél, (orig. des.).
- Chaetorhagoletis* Blanchard, in Aczél, 1954b:138. *Nomen nudum*.
- Refs. — Aczél, 1954b:142 (morphology, key); Foote, 1966b (review).
- ANNULATA Aczél, 1954b:142, text-figs. 13-15, pl. 2, B (head, palpus, ♂ genitalia, wing). Type-locality: Mexico, San Luis Potosí, Tamazunchale. Distr. — U.S.A. (Texas), Mexico (San Luis Potosí).
- ARGENTINENSIS (Aczél), 1950:308, text-figs. 1, 2A, pl. 1, A (head, ovipositor, ♂ abdomen, mesonotum, wing) (*Serpentinographa*). Type-locality: "Argentina". Distr. — Argentina.
- PASTRANAI Aczél, 1954b:146, text-figs. 5-12, pl. 2, A (head, antenna, ♂ and ♀ abdomens, ♂ genitalia, wing). Type-locality: Argentina, Córdoba, San Javier, Sierra Zapla. Distr. — Argentina (Córdoba).

XANTHOGASTRA Aczél, 1950:315, text-figs. 2B, 3, pl. 1, B (head, ovipositor, mesonotum, wing). Type-locality: Argentina, Tucumán, Villa Padre Monte. Distr. — Argentina (San Javier, Sierra Tala, Córdoba; Tucumán). Ref. — Aczél, 1954a:150, figs. 1-4 (antenna, palpus, ♂ genitalia).

#### Genus RHITHRUM Hendel

RHITHRUM Hendel, 1914a:85 (1914b:45). Type-species, *rivulatum* Hendel (orig. des.).

Ref. — Aczél, 1953a:176 (key).

RIVULATUM Hendel, 1914b:45. Type-locality: Bolivia, Guaqui, Lake Titicaca and Peru, Cuzco. Distr. — Peru, Bolivia. Ref. — Hering, 1941a:147.

VITTATUM Aczél, 1953a:176, text-figs. 60, 61, pl. 6, R (head, abdomen, wing). Type-locality: Argentina, Mendoza, Potrerillos. Distr. — Argentina (Mendoza).

#### Genus STONEOLA Hering

STONEOLA Hering, 1941a:140. Type-species, *Anastrepha fuscobasalis* Hering (orig. des.).

FUSCOBASALIS (Hering), 1935:226, fig. 1 (wing) (*Anastrepha*). Type-locality: Peru, Chanchamayo. Distr. — Peru (Chanchamayo). Ref. — Hering, 1941a:141.

#### Genus STROBELIA Rondani

STROBELIA Rondani, 1868:29. Type-species, *baccharidis* Rondani (Hendel, 1914a:93).

ALBOGUTTATA Hendel, 1914b:52, pl. 2, fig. 39 (wing). Type-locality: Chile, Talcahuano. Distr. — Chile (Talcahuano).

BACCHARIDIS Rondani, 1868:29. Type-locality: Argentina, Buenos Aires. Distr. — Argentina (Buenos Aires, Mendoza, Córdoba). Ref. — Bruch & Blanchard, 1940:85, text-figs. 1-4, pl. 1 (details of larva, wing, damage).

*scudderi* Weyenbergh, 1882:363, figs. 1-3 (female, wing, head) (*Trypeta*). Type-locality: Argentina, Córdoba.

*cuculi* Kieffer & Jörgenson, 1910:372, 397, fig. 26 (wing) (*Trypeta*). Type-locality: Argentina, Mendoza, Pedregal, Chacras de Coria.

BIMACULATA Hendel, 1914b:52, pl. 2, fig. 37 (wing). Type-locality: Brazil, Rio Grande do Sul. Distr. — Brazil (Rio Grande do Sul).

FERRUGINA Hendel, 1928:369. Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).

LUTULENTA Hendel, 1914b:52, pl. 2, fig. 38. Type-locality: Argentina, Rivadavia. Distr. — Argentina (Rivadavia).

PARALLELA Hendel, 1914b:51, pl. 2, fig. 36. Type-locality: Peru, Callanga and Bolivia, Mapi, Sarampiuni. Distr. — Peru, Bolivia. Ref. — Hering, 1941a:149.

RUBIGINOSA Rondani, 1868:30. Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).



## Genus TEPHRITIS Latreille

TEPHRITIS Latreille, 1804:196. Type-species, *Musca arnicae* Linnaeus (Cresson, 1914:278).

Ref. — Hering, 1944b:17 (key, World species).

ALDRICHI (Aczél), 1953b:278; text-figs. 1, 2, pl. 20, A (head, fore tibia and tarsi, wing) (*Trypanea*). Type-locality: Peru, Saha Parish. Distr. — Peru. N. comb.

AORISTA (Hendel), 1914b:82, pl. 4, fig. 82 (wing) (*Trypanea*). Type-locality: Chile, Valparaíso. Distr. — Chile (Valparaíso), Argentina (Rio Negro: L. Gutierrez, Bariloche).

ARANEOSA (Coquillett), 1894:74 (*Trypeta*). Type-locality: U.S.A., southern California. Distr. — U.S.A. (many localities), Mexico (Ensenada, Baja California).

CALIFORNICA Doane, 1899:190, pl. 4, fig. 7 (wing). Type-locality: U.S.A., California. Distr. — U.S.A. (California), northern Mexico. Ref. — Foote, 1960a:76.

DIESPASMENA Schiner, 1868:271. Type-locality: "Chile". Distr. — Chile (common and widely distributed in south), Argentina (Chubut, Rio Negro, Neuquén). Ref. — Aczél, 1953b:281, text-figs. 6-8, pl. 20, C, E (fore tibia and tarsi, head, ovipositor, wings).

*virabeni* Blanchard in Havrylenko & Winterhalter, 1949:42 (*Trypanea*). *Nomen nudum*.

SETULOSA (Malloch), 1933:281, pl. 5, fig. 4 (wing) (*Trypanea*). Type-locality: Argentina, Rio Negro, L. Gutierrez. Distr. — Argentina (Rio Negro), Chile (Llanquihue).

SIMULATA (Malloch), 1933:295, pl. 6, fig. 12 (wing) (*Trypanea*). Type-locality: Argentina, Rio Negro, L. Gutierrez. Distr. — Argentina (Rio Negro). Ref. — Aczél, 1953b:285, pl. 20, D (wing).

STONEI (Stuardo Ortiz), 1946:136 (*Trypanea*; nom. nov. for *diversa* Malloch). Type-locality: Chile, Llanquihue, Chiloe I.: Puntra. Distr. — Argentina (Rio Negro), Chile (Llanquihue).

*diversa* Malloch, 1933:296, pl. 6, fig. 11 (wing) (*Trypanea*; preocc. Wiedemann, 1830). Type-locality: Chile, Llanquihue, Chiloe I.: Puntra.

SUBRADIATA Wulp, 1900:420, pl. 12, fig. 24 (wing). Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:244.

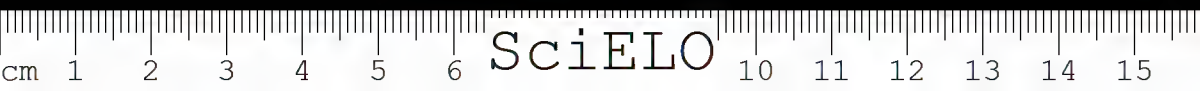
TRIPUNCTA (Malloch), 1933:281, pl. 5, fig. 3 (wing) (*Trypanea*). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina (Rio Negro), Chile (Llanquihue).

UNICOLOR Walker, 1837:358. Type-locality: Chile, Tierra del Fuego, Port Famine. Ref. — Foote, 1964b:324 (as *Trypanea*).

## Genus TETREUARESTA Hendel

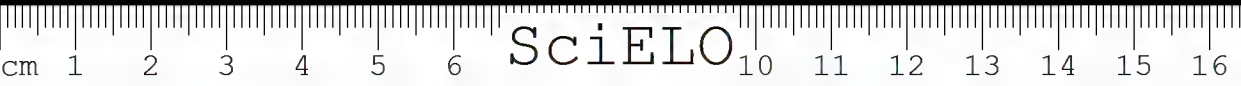
TETREUARESTA Hendel, 1928:368. Type-species, *Trypeta obscuriventris* Loew (orig. des.).

ANGUSTIPENNIS (Wulp), 1900:425, unnumbered text-fig. (wing) (*Euaresta*). Type-locality: Mexico, D.F. Distr. — Mexico (D.F.). Ref. — Foote, 1965b:246.





- BARTICA Bates, 1933b:53, fig. 4 (wing). Type-locality: British Guiana, Bartica. Distr. — British Guiana (Bartica).
- COPIOSA Hering, 1942b:287, fig. 10 (wing). Type-locality: Brazil, Minas Gerais, São João del Rei. Distr. — Brazil (Minas Gerais).
- CRENULATA (Wulp), 1900:423, unnumbered text-fig. (wing) (*Euaesta*). Type-locality: Mexico, Guerrero, Chilpancingo. Distr. — Mexico (Guerrero, Veracruz). Ref. — Foote, 1965b:246.
- DELETA Hering, 1941b:478, fig. 5 (wing). Type-locality: Brazil, Pernambuco. Distr. — Brazil (Pernambuco).
- ELLIPTA (Hendel), 1914b:73, pl. 4, fig. 66 (wing) (*Euaesta*). Type-locality: Bolivia, Mapiro, San Carlos and Peru, valley of Lares, Pichis Road, Callanga. Distr. — Peru, Bolivia. Ref. — Hering, 1941a:155.
- ellipta*, error.
- LATA Hering, 1941b:478, fig. 4 (wing). Type-locality: Paraguay, Asunción. Distr. — Paraguay (Asunción).
- MYRTIS (Hendel), 1914b:73, pl. 4, fig. 67 (wing) (*Euaesta*). Type-locality: Peru, Chanchamayo, Pinipini and Bolivia, Songo, Vilcanota. Distr. — Peru, Bolivia. Ref. — Hering, 1941a:155.
- OBSCURIVENTRIS (Loew), 1873:313, pl. 10, fig. 26 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — Puerto Rico, Jamaica, Cuba, ?Bolivia, ?Colombia, Brazil; introduced to Hawaii and Fiji to control *Elephantopus mollis*. Ref. — Hering, 1941a:155.
- catharinensis* Enderlein, 1911:431 (*Euaesta*). Type-locality: Brazil, Santa Catarina.
- columbiana* Enderlein, 1911:431 (*Euaesta*). Type-locality: Colombia, Hacienda Pehike.
- PHTHONERA (Hendel), 1914b:74, pl. 4, fig. 68 (wing) (*Euaesta*). Type-locality: Peru, Callanga. Distr. — Peru (Callanga). Ref. — Hering, 1941a:155.
- PLATYPTERYX Hering, 1940a:12, fig. 1 (wing) (as *timida* ssp.). Type-locality: Venezuela, Maracay. Distr. — Venezuela (Maracay).
- PLAUMANNI Hering, 1953:10, fig. 9 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- PUNCTIPENNATA Hering, 1941b:476, fig. 3 (wing). Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- punctipennis* Hering, 1942b:287 (error).
- RUFULA Hering, 1942b:286, fig. 9 (wing). Type-locality: Colombia, Cordillera. Distr. — Colombia (Cordillera).
- SCITULA (Wulp), 1900:425, unnumbered text-fig. (wing) (*Euaesta*). Type-locality: Mexico, northern Sonora. Distr. — Mexico (Sonora). Ref. — Foote, 1965b:246.
- SPECTABILIS (Loew), 1873:309, pl. 10, fig. 27 (wing) (*Trypeta*). Type-locality: "Brazil". Distr. — ?British Guiana, Brazil, (Kartabo), Bolivia (Mapiro, San Carlos), Peru (Meshagua, Urubamba River). Ref. — Hering, 1941a:156.
- TIMIDA (Loew), 1862a:221 (Cent. 2, n° 76) (*Trypeta*). Type-locality: "Mexico". Distr. — Mexico (Guadalajara).



# Genus TOMOPLAGIA Coquillett

*Plagiotoma* Loew, 1873:252 (preocc. Dujardin, 1841). Type-species, *Trypeta obliqua* Say (Coquillett, 1910:591).

TOMOPLAGIA Coquillett, 1910:591, 615 (nom. nov. for *Plagiotoma* Loew). Type-species, *Trypeta obliqua* Say (aut.).

Refs. — Aczél, 1955a (revision, Neotropical species); Aczél, 1955b (morphology, key).

ABERRANS Aczél, 1954b:157, text-figs. 28-31, pl. 2, D (head, ♀ abdomen, ♂ genitalia, wing). Type-locality: Brazil, Minas Gerais, Uberaba. Distr. — Brazil (Minas Gerais).

ARGENTINIENSIS Aczél, 1955a:337, text-figs. 98a-d, 102, n, pl. 22, fig. 13 (head, palpus, mesonotum, ♂ abdomen and genitalia, wing). Type-locality: Argentina, Tucumán, Quebrada de Caizo, nr. Tafi Viejo. Distr. — Argentina (Tucumán).

ARSINOE Hering, 1942b:285. Type-locality: Colombia, Cordillera. Distr. — Colombia (Cordillera).

ATELESTA Hendel, 1914b:37. Type-locality: Bolivia, Mapiri, San Carlos, Sarampuni, San Antonio, Suapi. Distr. — Bolivia.

ATIMETA Hendel, 1914b:35, pl. 2, fig. 25 (wing). Type-locality: Bolivia, Mapiri, Sarampuni, Bellavista. Distr. — Bolivia.

BISERIATA (Loew), 1873:252 (*Trypeta*). Type-locality: "Brazil". Distr. — Ecuador, Brazil.

BREVIPALPIS Aczél, 1955a:339, figs. 91, 97e. pl. 19, fig. 2 (head, palpus, ♂ abdomen and genitalia, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Cermeño).

CARRERAI Aczél, 1955a:341, figs. 96a-c, 97, pl. 21, fig. 9 (head, palpus, ♂ abdomen and genitalia, wing). Type-locality: Brazil, São Paulo, São Sebastião I., Castelhanos Bay. Distr. — Brazil (São Paulo).

CONJUNCTA Hendel, 1914b:38. Type-locality: Peru and Bolivia, Songo. Distr. — Peru, Bolivia. Ref. — Hering, 1941a:144.

COSTALIMAI Aczél, 1955a:344, figs. 98e-i, 102o-p, pl. 22, fig. 14 (head, palpus, ovipositor, ♂ abdomen and genitalia, ♀ abdomen, wing). Type-locality: Argentina, Entre Rios, Concórdia. Distr. — Argentina (Entre Rios, Misiones, Oriente, Tucumán).

CRESSONI Aczél, 1955a:347, figs. 95g-k, 97c-d, pl. 20, fig. 4 (head, palpus, ♂ abdomen and genitalia, ♀ abdomen and ovipositor sheath, wing). Type-locality: U.S.A., California, Ontario. Distr. — U.S.A. (many localities), northern Mexico.

DEFLORATA Hering, 1937:296. Type-locality: Costa Rica, 8 km west of San José at Farm La Caja. Distr. — Guatemala (Guatemala City) Costa Rica (San José), Panama (El Cermeño, La Campana, Arraijan), Antigua. Ref. — Aczél, 1955a:350, figs. 92, 97f, pl. 19, fig. 3 (head, palpus, ♂ abdomen and genitalia, ♀ abdomen and ovipositor, wing).

DIAGRAMMA Hendel, 1914b:36. Type-locality: Peru, Urubamba River, Umu-huankiali. Distr. — Peru (Umuhuankiali). Ref. — Hering, 1914a:144.

- DISCOLOR (Loew), 1862b:64, pl. 2, fig. 1 (*Trypeta*). Type-locality: "Cuba".  
Distr. — Cuba, Puerto Rico (Mayaguez). Ref. — Aczél, 1955a: 353, fig. 97g, pl. 20, fig. 6 (♀ abdomen, wing).
- obliqua* Bigot, 1857b:328 (*Tephritis*). Type-locality: "Cuba".
- FIEBRIGI Hendel, 1914b:40. Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Argentina (Córdoba, Piquete, Corrientes, Chaco, Jujuy, Formosa, Tucumán), Paraguay (La Cordillera). Ref. — Aczél, 1955a:355, figs. 98j-o, 102j-k, pl. 22, fig. 15 (head, palpus, ♂ genitalia, ovipositor, wing).
- FORMOSA Aczél, 1955a:358, figs. 98p-s, 102v, pl. 23, fig. 16 (head, palpus, ovipositor, ♀ abdomen, wing). Type-locality: Argentina, Formosa. Misión Laishi. Distr. — Argentina (Formosa).
- HERINGI Aczél, 1955a:360, figs. 99c, e, 102s, pl. 23, fig. 17 (palpus, wing, ♀ abdomen and ovipositor, wing). Type-locality: Paraguay, Villarrica. Distr. — Paraguay.
- INCOMPLETA (Williston), 1896:378 (*Trypeta*). Type-locality: St. Vincent. Distr. — Puerto Rico (Maricao, Mayaguez), St. Kitt's I. (Stapleton), St. Vincent, Paraguay, Argentina (many localities). Ref. — Aczél, 1955a:362, figs. 99h-m, 102l-m, pl. 22, fig. 12 (head, palpus, ♂ genitalia, ovipositor, wing).
- JONASI (Lutz & Lima), 1918:10, fig. 24 (wing) (*Plagiictoma*). Type-locality: Brazil, Mato Grosso, Utiariti. Distr. — Brazil (Mato Grosso, Guanabara). Ref. — Lima, 1934b:118, fig. 2 (♂ genitalia).
- KELLOGGI Aczél, 1955a:365, figs. 99a-b, 102g, pl. 23, fig. 18 (head, palpus, ♂ abdomen, wing). Type-locality: Peru, Río Charape. Distr. — Peru (Río Charape).
- MINATTAI Aczél, 1955a:368, figs. 99f-g, 102i, pl. 24, fig. 19 (head, palpus, ♀ abdomen, wing). Type-locality: Argentina, Entre Rios, Concordia. Distr. — Argentina (Entre Rios).
- MINUTA Hering, 1938a:187, fig. 1 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (São Paulo, Santa Catarina). Ref. — Aczél, 1955a:370, figs. 95f, 97h, pl. 21, fig. 10 (head, ♂ abdomen, wing).
- MONOSTIGMA Hendel, 1914b:38, pl. 2, fig. 27 (wing). Type-locality: Peru, valley of Lares. Distr. — Peru (Rosalina, Callanga, valley of Lares, Tingo María, Varias-Aguaytía, San Bartolomé). Refs. — Hering, 1941a:145; Aczél, 1955a:373, figs. 95a-e, 97i, pl. 20, fig. 8 (head, ovipositor, scutellum, postscutellum, ♀ abdomen, wing).
- OBLIQUA (Say), 1830:186 (1859:370) (*Trypeta*). Type-locality: U.S.A., Indiana. Distr. — U.S.A., (many localities, eastern), Mexico (Veracruz, Orizaba and Atoyac), ?Cuba. Ref. — Benjamin, 1934:32, figs. 25a-l (larva, pupa, head, palpus, ♂ genitalia, ovipositor, wing).
- OVALIPALPIS Aczél, 1955a:374, figs. 100a-e, 102w, pl. 24, fig. 20 (head, palpus, ♀ abdomen and ovipositor, wing). Type-locality: Brazil, São Paulo, Itanhaém. Distr. — Brazil (São Paulo).
- PENICILLATA Hendel, 1914b:39. Type-locality: Peru, Callanga. Distr. — Peru (Callanga). Ref. — Hering, 1941a:145.
- PHAEDRA Hendel, 1914b:38. Type-locality: Peru, Rosalina, Urubamba River. Distr. — Peru (Urubamba River), Argentina (Corrientes, Santa Fe, Tucumán, Misiones). Ref. — Aczél, 1955a:378, figs. 100h-l, 102c-d, pl. 24, fig. 21 (head, palpus, ♂ abdomen and genitalia, ♀ abdomen and ovipositor, wing).



- PLEURALIS** Hendel, 1914b:39. Type-locality: Peru, Callanga. Distr. — Peru (Callanga, Río Charape), Ecuador (Hacienda Parish), Argentina (Corrientes, Córdoba, Chaco). Refs. — Hering, 1941a:145; Aczél, 1955a:381, figs. 100f-g, 102h, pl. 25, fig. 22 (head, palpus, ♂ abdomen, wing).
- PROPLEURALIS** Aczél, 1955a:385, fig. 94, pl. 20, fig. 5 (head, thorax, ♀ abdomen, wing). Type-locality: Puerto Rico, Adjuntas, Petri Finca. Distr. — Puerto Rico (Adjuntas).
- PSEUDOPENICILLATA** Aczél, 1955a:387, figs. 93, 97k, pl. 19, fig. 4 (head, midtibia, mesonotum, ♂ abdomen and genitalia, wing). Type-locality: Brazil, near São Paulo. Distr. — Brazil (São Paulo).
- PUNCTATA** Aczél, 1955a:390, figs. 100m-p, 102t, u, pl. 25, fig. 23 (head, palpus, ♂ abdomen, ♀ abdomen and ovipositor, wing). Type-locality: Argentina, Misiones, Iguazu. Distr. — Argentina (Misiones).
- PURA** (Curran), 1931:16 (*Plagiotoma*). Type-locality: Puerto Rico, Jajome Alto. Distr. — Cuba, Puerto Rico.
- QUADRISERIATA** Hendel, 1914b:37. Type-locality: Peru, Callanga. Distr. — Peru (Callanga). Ref. — Hering, 1941b:145.
- QUADRIVITTATA** Lima, 1934b:119, text-fig. 4, pl. 1, fig. 5 (♂ terminalia, wing). Type-locality: Brazil, Minas Gerais, Betim (= Capela Nova do Betim). Distr. — Brazil (Minas Gerais).
- REIMOSERI** Hendel, 1914b:39. Type-locality: Trinidad, Port of Spain, and Paraguay, Santa Sofía and San Bernardino. Distr. — Venezuela (Carabobo, Valle Seco), Paraguay (Villarica, Santa Sofía, San Bernardino), Argentina (many localities), Brazil (many localities). Ref. — Aczél, 1955a:392, figs. 101i-m, 102q-r, pl. 25, fig. 24 (head, palpus, ♂ genitalia and abdomen, ovipositor, wing).
- RUDOLPHI** (Lutz & Lima), 1918:10, fig. 23 (wing) (*Plagiotoma*). Type-locality: Brazil, states of Rio de Janeiro and São Paulo. Distr. — Bolivia (Mutun), Brazil (Minas Gerais, Rio de Janeiro, São Paulo, Paraná). Refs. — Lima, 1934b:117, fig. 1 (♂ terminalia); Aczél, 1955a:395, figs. 101a-d, 102a-b, pl. 26, fig. 25 (head, palpus, ♂ abdomen, ♀ abdomen and genitalia, wing); Hering, 1961:4.
- biseriata* Loew of Ihering, 1912:14.
- SALESOPOLITANA** Aczél, 1955a:400, 101e-f, 102f, pl. 26, fig. 26 (head, palpus, ♂ abdomen, wing). Type-locality: Brazil, São Paulo, Salesópolis. Distr. — Brazil (São Paulo).
- SEPARATA** Hendel, 1914b:39. Type-locality: Peru, Rosalina. Urubamba River. Distr. — Peru (Urubamba River). Ref. — Hering, 1941a:145.
- STACTA** Hendel, 1914b:37, pl. 2, fig. 26 (wing). Type-locality: Bolivia, Yungas de Coroico. Distr. — Bolivia (Yungas de Coroico), Argentina (San José).
- STONEI** Aczél, 1955a:402, figs. 90, 97a-b, pl. 19, fig. 1 (head, palpus, ♂ abdomen and genitalia, ♀ abdomen, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (La Campana, El Cermeño).
- TITSCHACKI** Hering, 1941a:146, pl. 1, fig. 1 (wing). Type-locality: Peru, between Esperanza and Aina. Distr. — Peru.
- TRIPUNCTATA** Hendel, 1914b:36. Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Paraguay (La Cordillera).



- TRIVITTATA (Lutz & Lima), 1918:10, fig. 25 (wing) (*Plagiotoma*). Type-locality: Brazil, Mato Grosso, Serra Acima. Distr. — Argentina (Concordia, Entre Rios), Brazil (Mato Grosso, Minas Gerais, São Paulo). Refs. — Lima, 1934b:118, fig. 3 (♂ terminalia); Aczél, 1955a:405, figs. 96d-e, 97e, pl. 21, fig. 11 (head, ♂ abdomen, wing).
- UNIFASCIA Hendel, 1914b:39. Type-locality: Chile, Arica. Distr. — Chile (La Meite, Arica). Ref. — Aczél, 1955a:408, figs. 101g-h, 102e, pl. 26, fig. 27 (head, palpus, ♂ abdomen, wing).
- VERNONIAE Hering, 1938b:414. Type-locality: Brazil, Santa Catarina, Ibirama, Nova Bremen. Distr. — Brazil (Santa Catarina).

#### Genus TOMOPLAGIODES Aczél

- TOMOPLAGIODES Aczél, 1954a:91. Type-species, *mexicanus* Aczél (orig. des.).
- MEXICANUS Aczél, 1954a:91, text-figs. 20-23, pl. 1, D (head, antenna, palpus, ♂ genitalia, wing). Type-locality: Mexico, D.F. Distr. — Mexico (D.F.).

#### Genus TOXOTRYPANA Gerstaecker

- TOXOTRYPANA Gerstaecker, 1860:191. Type-species, *curvicauda* Gerstaecker (mon.).
- Mikimyia* Bigot, 1884:xxix. Type-species, *furcifera* Bigot (mon.). = *curvicauda* Gerstaecker.
- AUSTRALIS Blanchard, 1959:34, figs. 1c, 2a (mesonotum, wing). Type-locality: Argentina, Tucumán. Distr. — Argentina (Corrientes, Tucumán, Buenos Aires, Santiago del Estero).
- CURVICAUDA Gerstaecker, 1860:194, pl. 2, fig. 9 (adult). Type-locality: "Insula St. Jean" [Netherlands Antilles]. Distr. — U.S.A. (several localities), ?Bahama Islands, Cuba, Mexico, south to Brazil. Ref. — Benjamin, 1934: 11, figs. 11a-q (egg, larva, pupa, adult).
- furcifera* Bigot, 1884:xxix (*Mikimyia*). Type-locality: "Brazil".
- LITTORALIS Blanchard, 1959:36, figs. 1b, 2b (mesonotum, wing). Type-locality: Argentina, Corrientes. Distr. — Argentina (Corrientes).
- NIGRA Blanchard, 1959:42. Type-locality: Argentina, Entre Rios, Concordia. Distr. — Argentina (Entre Rios).
- PICCIOLA Blanchard, 1959:40, fig. 1d (mesonotum). Type-locality: Argentina, Tucumán. Distr. — Argentina (Tucumán).
- PROSENI Blanchard, 1959:38, fig. 1a (mesonotum). Type-locality: Argentina, Buenos Aires, Punta Lara. Distr. — Argentina (Buenos Aires).
- PSEUDOPICCIOLA Blanchard, 1959:43, fig. 2c (wing). Type-locality: Argentina, Córdoba. Distr. — Argentina (Córdoba).

#### Genus TRUPANEA Schrank

- Trupanea* Guettard, 1762:170-173. Unavailable name (author not binominal).
- TRUPANEA Schrank, 1795:147. Type-species, *radiata* Schrank (mon.) = *stellata* (Fuessley).

*Trypanea*, emendation.

*Urellia* Robineau-Desvoidy, 1830:774. Type-species, *calcitrapae* Robineau-Desvoidy (Coquillett, 1910:618) = *stellata* (Fuessley).

Larvae develop in the ovaries of flowers, principally composites. The species presented here as belonging to the genus *Trypanea* have wing patterns consisting of a preapical star-like mark with rays to the wing margin, but without other markings in the posterior basal quarter of the wing disk. Many species previously placed in *Trypanea* properly belong to other genera of Tephritini. See Munro (1964) for a critical study and discussion of generic limits.

ACTINOBOLEA (Loew), 1873:326 (*Trypeta*). Type-locality: U.S.A., Texas. Distr. — U.S.A., Bahama Islands (Grand Bahama I.).

ARGENTINA (Brèthes), 1908a:368 (*Urellia*). Type-locality: Argentina, Buenos Aires. Distr. — Argentina (many localities). Ref. — Aczél, 1953c:371, figs. 23-27, pl. 27, B (head, fore tibia and tarsi, abdomen, ovipositor, wing).

ARIZONENSIS Malloch, 1942:15, pl. 1, v (wing). Type-locality: U.S.A., Arizona, Tucson. Distr. — U.S.A., Mexico (Baja California). Ref. — Foote, 1960e:12, fig. 8 (wing).

ASTEROIDES Hendel, 1914b:78. Type-locality: Peru, Mollendo. Distr. — Peru (Mollendo, Valley of Yauca). Ref. — Hering, 1941a:170, pl. 1, fig. 13 (wing).

AUSTERA Hering, 1942a:18, fig. 25 (wing). Type-locality: Chile, Cortaderal. Distr. — Chile (Cortaderal).

BASISTRIGA Malloch, 1933:291, pl. 6, fig. 5 (wing). Type-locality: Argentina, Mendoza. Distr. — Argentina (Salta, Mendoza). Ref. — Aczél, 1953c:380, figs. 18-22, pl. 27, E (head, fore tibia and tarsi, abdomen, ovipositor, wing).

*secreta* Hering, 1942a:25, fig. 16 (wing). Type-locality: Argentina, Salta.

BISSETOSA (Coquillett), 1899:266 (*Urellia*). Type-locality: U.S.A., New Mexico. Distr. — U.S.A. (many localities), Mexico (Baja California). Ref. — Foote, 1960e:11, figs. 5, 6 (wings).

BISTIGMOSA Hering, 1941a:170, pl. 1, fig. 11 (wing). Type-locality: Chile, Arica. Distr. — Peru (Mollendo, Arequipa, Talca), Chile (Tacna, Arica).

BISTRIGA Malloch, 1933:291, pl. 6, fig. 6 (wing). Type-locality: Uruguay, Montevideo. Distr. — Uruguay, Montevideo.

BREVITARSIS Hering, 1941a:170, pl. 1, fig. 10 (wing). Type-locality: Peru, Mamara. Distr. — Peru (Mamara, Urubamba, Cuzco).

CHILENSIS (Macquart), 1843:385 (separate, p. 228), pl. 31, fig. 8 (wing) (*Acinia*). Type-locality: Chile, Concepción. Distr. — Chile (Concepción, Angol), Argentina (Rio Negro, Bariloche), ?Peru. Refs. — Malloch, 1933:282, pl. 5, fig. 5 (wing); Hering, 1941a:171.

CRASSITARSIS Hering, 1940c:32, fig. 7 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).

CYCLOPS Hendel, 1914b:80, pl. 4, fig. 77 (wing). Type-locality: Argentina, Tucumán and Brazil. Distr. — Brazil, Argentina (Tucumán).

- DACETOPTERA Phillips, 1923:148, fig. 59 (wing). Type-locality: U.S.A., New York, Karner. Distr. — U.S.A. (many localities, eastern), Bahama Is. (Eluthera I., South Caicos I.), Puerto Rico, St. Croix. Ref. — Foote, 1960e:11, fig. 7 (wing).
- DAPHNE (Wiedemann), 1830:508 (*Trypeta*). Type-locality: Uruguay, Montevideo. Distr. — Argentina (Buenos Aires, Mendoza, San José, Aguaray), Uruguay (Montevideo).
- duplicata* Wiedemann, 1830:510 (*Trypeta*). Type-locality: Uruguay, Montevideo.
- meteorica* Thomson, 1869:582 (*Trypeta*). Type-locality: Argentina, Buenos Aires.
- alpha* Malloch, 1933:287, pl. 5, fig. 8 (wing) (as *neodaphne* var.). Type-locality: Uruguay, Montevideo.
- DIAGRAMMATA Hering, 1947:11, fig. 4 (wing). Type-locality: Mexico, Guerrero, Chilapa. Distr. — Mexico (Guerrero).
- ERASA Malloch, 1942:16, fig. 1w (wing). Type-locality: Peru, Lima. Distr. Peru (Lima).
- EXCEPTA Malloch, 1933:288, pl. 5, fig. 13 (wing). Type-locality: Chile, Los Andes. Distr. — Chile.
- FLAVIVENA Hering, 1937:300, fig. 1 (wing). Type-locality: Costa Rica, 8 km west of San José at Farm La Caja. Distr. — Costa Rica (San José).
- HELOTA Hering, 1941a:172, pl. 1, fig. 14 (wing). Type-locality: Peru, Palco. Distr. — Peru (Palco).
- HENDELI Hering, 1941a:172, pl. 1, fig. 9 (wing). Type-locality: Peru, Juliaca. Distr. — Peru, Bolivia, Argentina, Brazil. Ref. — Aczél, 1953c:374, fig. 28, pl. 27, C (head, wing).
- chilensis* Macquart of Hendel, 1914b:79.
- LILLOI Aczél, 1953c:383, figs. 13-17, pl. 27, F (head, fore tibia and tarsi,  $\delta$  genitalia, abdomen, wing). Type-locality: Argentina, La Rioja, Sañogasta. Distr. — Argentina (La Rioja, Mendoza).
- MALLOCHI Hering, 1940b:50, figs. 1a-b (wing, foreleg). Type-locality: Costa Rica, 8 km west of San José at Farm La Caja. Distr. — Costa Rica (San José).
- METOECA Hendel, 1914b:77, pl. 4, fig. 71 (wing). Type-locality: Peru, Cuzco and Mamara, and Chile, Arica. Distr. — Peru (Cuzco, Mamara), Chile (Arica), Argentina (Buenos Aires), Uruguay (Montevideo). Refs. — Hering, 1936:329; Hering, 1941a:173.
- MEVARNA (Walker), 1849:1023 (*Trypeta*). Type-locality: U.S.A., Florida. Distr. — U.S.A. (several localities, eastern U.S.A. to Texas), Mexico (Guerrero, Gulf of California), Puerto Rico (Adjuntas), St. Vincent. Refs. — Foote, 1960a:15, fig. 12 (wing); Foote, 1964b:322.
- solaris* Loew, 1862b:63, pl. 2, fig. 19 (wing) (*Trypeta*). Type-locality: U.S.A., Georgia.
- MULTISETOSA Hering, 1936:330, fig. 2 (wing). Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco). Refs. — Hering, 1936:329; Hering, 1941a:173.



- NEODAPHNE Malloch, 1933:286. Type-locality: Uruguay, Montevideo. Distr. — Paraguay (Encarnación), Uruguay (Montevideo).  
*daphne* Wiedemann of Brèthes, 1908a:370.  
 var. BETA Malloch, 1933:287, pl. 5, fig. 9 (wing). Type-locality: Uruguay, Montevideo.  
 var. GAMMA Malloch, 1933:287, pl. 5, fig. 10 (wing). Type-locality: Uruguay, Montevideo.
- NIGRICORNIS (Coquillett), 1899:266 (*Urellia*). Type-locality: U.S.A., Colorado. Distr. — U.S.A., Mexico (Baja California). Ref. — Foote, 1960e:9, fig. 4 (wing).
- NIGRICORNUTA Hering, 1942a:23, fig. 14 (wing). Type-locality: Argentina, Salta. Distr. — Argentina (Salta).
- NIGRISETA Malloch, 1933:283, pl. 5, fig. 6 (wing). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina (Bariloche; L. Gutierrez), Chile (Port Famine, Tierra del Fuego).
- NOVARAE (Schiner), 1868:269 (*Tephritis*). Type-locality: "Chile". Distr. — Chile, Argentina (many localities), Brazil (São Paulo), Paraguay (San Bernardino). Ref. — Aczél, 1953c:376, figs. 7-12, pl. 27, D (head, fore tibia and tarsi, ovipositor, ♂ genitalia, wing).  
*bonariensis* Brèthes, 1908a:369, fig. 2 (wing) (*Urellia*). Type-locality: Argentina, Buenos Aires, Luján.  
*majuscula* Bezzi & Tavares, 1916:163, fig. 2 (wing). Type-locality: Brazil, Rio de Janeiro, Nova Friburgo; Bahia, between city of Salvador and Rio Vermelho. Ref. — Lima, 1934b:126, fig. 7 (♂ terminalia).  
*ornatissima* Hering, 1935:288, fig. 1 (wing). Type-locality: Brazil, Santa Catarina.
- NUBILATA Hering, 1936:30, fig. 3 (wing). Type-locality: Chile, Arica. Distr. — Chile (Arica).
- NUDIPES Hering, 1938a:191, fig. 4 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina). Ref. — Hering, 1938b:417 (♀).
- OBSOLETA Hendel, 1914b:77. Type-locality: Chile, Palca. Distr. — Chile (Palca).
- OMPHALE Hering, 1936:331, fig. 4 (wing). Type-locality: Chile, Palca (as Palea). Distr. — Chile (Palca).  
*omphrale*, error.
- PARADAPHNE Hering, 1953:15, fig. 8 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- PARAGOGA Hering, 1936:328, fig. 1 (wing). Type-locality: Peru, Puno, L. Titicaca. Distr. — Peru (Puno), Chile (Tacna, Arica). Ref. — Hering, 1941a:174.
- PARAPLESIA Hendel, 1914b:80. Type-locality: Peru, Puno, L. Titicaca. Distr. — Peru (Puno). Ref. — Hering, 1941a:174.
- PATAGONICA (Brèthes), 1908a:372, fig. 4 (wing) (*Urellia*). Type-locality: Chile, Carmen de Patagones. Distr. — Peru (Palco), Argentina (Potrerillos, Buenos Aires, Córdoba), Chile. Ref. — Hering, 1941a:174.



- PAUPERCULA Hering, 1940b:51, fig. 2 (wing). Type-locality: Costa Rica, 8 km west of San José at Farm La Caja. Distr. — Costa Rica (San José).
- PERUVIANA Malloch, 1942:8, fig. 1d (wing). Type-locality: Peru, Arequipa. Distr. — Peru (Arequipa).
- PLATENSIS (Brèthes), 1908a:373, figs. 5, 6 (wings, larva) (*Urellia*). Type-locality: Argentina, Buenos Aires, and Paraguay, Villa Encarnación. Distr. — Paraguay, Argentina.
- PLAUMANNI Hering, 1940c:33, fig. 8 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- PROPINQUA Hering, 1941a:174, pl. 1, fig. 15 (wing). Type-locality: Peru, Hacienda Huayuri. Distr. — Peru.
- PSEUDODAPHNE Hering, 1942a:24, fig. 15 (wing). Type-locality: Brazil, Rio Grande do Sul. Distr. — Brazil (Rio Grande do Sul).
- PUBESCENS (Kieffer & Jörgenson), 1910:433, fig. 57 (wing) (*Tephritis*). Type-locality: Argentina, "Cordillera". Distr. — Argentina, Peru (Juliaca, Mamara, Cuzco), Bolivia (Lake Titicaca).
- fuscicubitalis* Hering, 1941a:171. Type-locality: Peru, Puno, Lake Titicaca.
- patagonica* Brèthes of Hendel, 1914b: pl. 4, fig. 78 (wing).
- PUTATA Hering, 1940c:33, fig. 9 (wing). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).
- REDUCTA Hendel, 1914b:77, pl. 4, fig. 70 (wing). Type-locality: Peru, Puno, and Bolivia, Guaqui, both Lake Titicaca. Distr. — Peru, Bolivia. Ref. — Hering, 1941a:175.
- SETIFRONS Malloch, 1933:288, pl. 5, fig. 14 (wing). Type-locality: Argentina, "Delta". Distr. — Argentina.
- SOLIVAGA Hering, 1942a:27, fig. 22 (wing). Type-locality: Argentina, Salta. Distr. — Argentina (Salta).
- STENOPTERA Hendel, 1914b:77, pl. 4, fig. 69 (wing). Type-locality: Peru, Puno, Lake Titicaca, Chile, Tacna, and Bolivia, Carioca and Guaqui, Lake Titicaca. Distr. — Peru, Bolivia, Chile. Ref. — Hering, 1941a:175.
- SYRMOPHORA Hering, 1942a:27, fig. 20 (wing). Type-locality: Chile, Cauquenes. Distr. — Chile (Cauquenes).
- THOMSONI Hendel, 1914b:76 (*Trypeta*; nom. nov. for *plagiata* Thomson). Type-locality: Argentina, Buenos Aires. Distr. — Argentina (common and widely distributed), Bolivia (Sara). Refs. — Brèthes, 1908a:367, fig. 1 (wing) (as *plagiata*); Aczél, 1953c:368, figs. 1-6, pl. 27, A (head, palpus, fore tibia and tarsi, ovipositor, wing)
- plagiata* Thomson, 1869:583 (*Trypeta*; preocc. Blanchard, 1852). Type-locality: Argentina, Buenos Aires.
- TUCUMANENSIS Malloch, 1933:288, pl. 6, fig. 2 (wing). Type-locality: Argentina, Tucumán, San Pablo. Distr. — Argentina (Tucumán). Ref. — Hering, 1942a:29.
- UNIMACULOSA Hering, 1941a:171, 176. Type-locality: Peru, Palco. Distr. — Peru (Palco).
- VICINA (Wulp), 1899:427, unnumbered text-fig. (wing) (*Urellia*). Type-locality: Mexico, Orizaba. Distr. — U.S.A. (southwestern), Mexico (Orizaba, Gulf of California). Ref. — Foote, 1960e:25, fig. 25 (wing).

VULPINA Hering, 1942a:31, fig. 13. Type-locality: Argentina (Salta). Distr. — Argentina (Salta).

WHEELERI Curran, 1932:7, fig. 1. Type-locality: U.S.A., California, San Diego. Distr. — U.S.A. (many localities), Mexico (Baja California). Ref. — Foote, 1960e: 14, fig. 11 (wing).

### Genus TRYPANARESTA Hering

TRYPANARESTA Hering, 1940a:10. Type-species, *Trypanaea imitatrix* Hering (orig. des.).

APOTELA (Hendel), 1914b:83, pl. 4, fig. 84 (wing) (*Trypanaea*). Type-locality: "Venezuela". Distr. — Venezuela.

COELESTINA (Hering), 1938a:192, fig. 6 (wing) (*Trypanaea*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).

DIFFICILIS (Malloch), 1933:280, pl. 4, fig. 14 (wing) (*Trypanaea*). Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).

HESTIAE (Hendel), 1914b:82, pl. 4 fig. 83 (wing) (*Trypanaea*). Type-locality: Argentina, Tucumán, Quebrada de Lules. Distr. — Argentina (Tucumán).

IMITATRIX (Hering), 1938a:193, fig. 7 (wing) (*Trypanaea*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).

MISETA (Hering), 1938b:416, fig. 17 (wing) (*Trypanaea*). Type-locality: Brazil, Santa Catarina, Nova Teutônia. Distr. — Brazil (Santa Catarina).

SUBASTER (Malloch), 1933:280, pl. 4, fig. 13 (wing) (*Trypanaea*). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina (Rio Negro).

TITSCHACKI Hering, 1941:157, pl. 1, fig. 16 (wing). Type-locality: Peru, Sivia. Distr. — Peru.

### Genus TRYPETA Meigen

TRYPETA Meigen, 1803:277. Type-species, *Musca artemisiae* Fabricius (Coquillett, 1910:618).

*Forelia* Robineau-Desvoidy, 1830:760. Type-species, *onopordi* Robineau-Desvoidy (Rondani, 1870:7) = *artemisiae* (Fabricius).

*Phorellia*, emend.

*Spilographa* Loew, 1862c:39. Type-species, *Trypeta hamifera* Loew (Coquillett, 1910:607).

*Siplographa*, error.

*Euribia*, authors, not Meigen.

CONCOLOR (Wulp), 1899:408, text-figs. 14-19, pl. 11, fig. 28 (head, antenna, palpus, ovipositor, abdomen, wing) (*Spilographa*). Type-locality: Mexico, Mexico city. Distr. — Mexico (Mexico city). Refs. — Aczél, 1954a:87, pl. 1, C (wing); Foote, 1965b:239.

RUFATA (Wulp), 1899:407, pl. 11, fig. 27 (wing) (*Spilographa*). Type-locality: Mexico, Guerrero, Omilteme. Distr. — Mexico (Guerrero: Omilteme, Sierra de las Aguas Escondidas). Ref. — Foote, 1965b:239.

**STRIATA** (Wulp), 1899:406, pl. 11, fig. 24 (wing) (*Spillographa*). Type-locality: Mexico, Guerrero, Sierra de las Aguas Escondidas. Distr. — Mexico (Guerrero). Ref. — Foote, 1965b:238.

#### Genus UROPHORA Robineau-Desvoidy

**Euribia** Meigen, 1800:36. Type-species, *Musca cardui* Linnaeus (Hendel, 1927a:41). Suppressed by I.C.Z.N., 1963:339.

**UROPHORA** Robineau-Desvoidy, 1830:769. Type-species, *sonchi* Robineau-Desvoidy (Westwood, 1840:149) = *cardui* (Linnaeus).

Ref. — Hering, 1941a:127 (key, American species).

**ACOMPSA** (Hendel), 1914b:31, pl. 2, fig. 22 (wing) (*Tephritis*). Type-locality: Peru, Tarma. Distr. — Peru (Tarma). Ref. — Hering, 1941a:129.

**ADJACENS** (Hering), 1941a:129, fig. 3 (wing) (*Euribia*). Type-locality: Peru, Urubamba River. Distr. — Peru (Urubamba River).

**AEREA** (Hering), 1941b:479, fig. 6 (wing) (*Euribia*). Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

**AGNATA** (Hering), 1942a:1, fig. 1 (wing) (*Euribia*). Type-locality: Colombia, "Cordillere". Distr. — Colombia.

**CHAETOSTOMA** (Hering), 1941a:130, fig. 1 (wing) (*Euribia*). Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco).

**COLUMBIANA** (Hering), 1942a:2 (*Euribia*). Type-locality: "Colombia". Distr. — Colombia.

**CONFERTA** (Walker), 1852:379 (*Trypeta*). Type-locality: Colombia, Cartagena. Distr. — Colombia (Cartagena). Ref. — Foote, 1964b:319.

**DILUTA** (Enderlein), 1911:459, fig. C1 (wing) (*Urellia*). Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).

**DISJUNCTA** Becker, 1919:191, pl. 16, fig. 9 (wing). Type-locality: Ecuador, Casitagua. Distr. — Ecuador (Casitagua).

**FUNEbris** (Hering), 1941a:130, fig. 4 (wing) (*Euribia*). Type-locality: Bolivia, Sorata, and ?Peru. Distr. — Peru, Bolivia.

**MAMARAE** (Hendel), 1914b:32 (*Tephritis*). Type-locality: Peru, Mamara. Distr. — Peru (Mamara).

**MORA** (Hering), 1941a:131, fig. 2 (wing) (*Euribia*). Type-locality: Peru, Puno, Lake Titicaca. Distr. — Peru (Puno).

**SIMPLEX** Becker, 1919:192, pl. 16, fig. 8 (wing). Type-locality: Ecuador, Pinullar. Distr. — Ecuador.

**TOWNSENDI** Bezzi, 1923:4, fig. 3 (wing). Type-locality: Peru, Río Charape. Distr. — Peru (Río Charape). Ref. — Hering, 1941a:132.

**TRIVIRGULATA** Foote, 1960b:89, fig. 2 (wing). Type-locality: Bahama Is., Great Sale Cay, Abaco Cays. Distr. — Bahama Is.

**UNICA** Becker, 1919:191, pl. 16, fig. 5 (wing). Type-locality: Ecuador, El Angel, Mirador, and Chile, El Pelado. Distr. — Ecuador, Chile.

#### Genus XANTHACIURA Hendel

**XANTHACIURA** Hendel, 1914a:86 (1914b:45). Type-species, *Trypeta chrysura* Thomson (orig. des.).

**Tetraciura** Hendel, 1914a:90 (1914b:48). Type-species, *quadrisetosa* Hendel (orig. des.; as *quadriseta*, error).



*Aciura*, subg. *Eucosmoptera* Phillips, 1923:131. Type-species, *Aciura tetraspina* Phillips (Bates, 1933b:55).

*Aciura* (part), authors, not Robineau-Desvoidy.

Refs. — Aczél, 1949b:117 (key, Neotropical species); Aczél, 1952b:245 (morphology, key).

BIOCELLATA (Thomson), 1869:580 (*Trypeta*). Type-locality: Argentina, Buenos Aires. Distr. — Uruguay (Montevideo), Paraguay (San Bernardino), Argentina (several localities), Brazil (Santa Catarina, Nova Teutônia). Ref. — Aczél, 1949b:120, text-fig. 1, pl. 1, fig. A (wing, head, ovipositor).

CHRYSTURA (Thomson), 1869:580 (*Trypeta*). Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — U.S.A. (Florida), Mexico, south to Argentina and Brazil. Ref. — Aczél, 1949b:132, text-fig. 4, pl. 2, fig. D (wing, head, ovipositor).

*insecta* Loew of Schiner, 1868:265 (part).

*insecta* Loew of Wulp, 1899:410, pl. 12, fig. 3 (wing) (part).

*erosa* Enderlein, 1911:458, fig. B' (wing) (*Aciura*). Type-locality: Brazil, Santa Catarina, and Colombia. Ref. — Lindner, 1928:28. *contracta* Hering, 1937:298, fig. 4 (wing). Type-locality: Costa Rica, 8 km west of San José, at Farm La Caja.

CONNEXIONIS Benjamin, 1934:45, figs. 32a-p (larva, pupa, adult). Type-locality: U.S.A., 3 mi. south of Florida City, Florida. Distr. — U.S.A. (Texas, several localities), Mexico to Nicaragua, Jamaica to Bahama Is. Ref. — Aczél, 1952b:257, text-fig. 1, pl. 1, fig. A (head, ovipositor wing).

*brevinervis* Malloch, 1933:269. *Nomen nudum*.

EXCELSA Aczél, 1949b:123, text-fig. 2, pl. 1, fig. C (head, wing, ovipositor). Type-locality: Argentina, Tucumán, Tafi del Valle. Distr. — Argentina (Tucumán).

FLAVICAUDA Aczél, 1952b:260, text-fig. 2, pl. 1, B (head, wing, ovipositor). Type-locality: Nicaragua, San Marcos. Distr. — Nicaragua (San Marcos).

INSECTA (Loew), 1862b:72, pl. 2, fig. 8 (wing) (*Trypeta*). Type-locality: "Cuba". Distr. — U.S.A. (Florida), Mexico, throughout West Indies, Bahama Is. Refs. — Benjamin, 1934:44, fig. 31a-o (egg, larva, pupa, adult); Aczél, 1952b:263, text-fig. 3, pl. 1, C (head, palpus, basitarsus, ovipositor, wing).

MAJOR Malloch, 1934:79, fig. 1 (wing). Type-locality: Peru, Santa Eulalia. Distr. — Peru (Santa Eulalia). Refs. — Hering, 1941a:148; Aczél, 1952b:267, text-fig. 4, pl. 2, D (head, ovipositor, wing).

MALLOCHI Aczél, 1949b:125, text-fig. 3, pl. 1, B (wing, head, ovipositor). Type-locality: Argentina, Colonia Benítez. Distr. — Argentina (Colonia Benítez, Clarinda; Entre Ríos, Sauce).

PHOENICURA (Loew), 1873:269, pl. 11, fig. 12 (*Trypeta*). Type-locality: "Brazil". Distr. — Mexico, south to Peru and Brazil. Refs. — Hering, 1941a:148; Aczél, 1949b:135, text-fig. 5, pl. 2, E and E (wing, head, ovipositor).

QUADRISETOSA (Hendel), 1914a:90 (*Tetraciura*). Type-locality: Bolivia, Sorata. Distr. — Bolivia (Sorata), Argentina (many localities), Brazil (Pernambuco). Refs. — Hendel, 1914b:48, pl. 2, fig. 33 (wing)



(as *quadriseta*); Aczél, 1949b:139, text-fig. 6, pl. 3, F and F (wing, head, ovipositor); Aczél, 1952b:270, fig. 5 (♂ genitalia).

*quadriseta*, error.

- SPECIOSA** Hendel, 1914b:47, pl. 2, fig. 32 (wing). Type-locality: Peru, Mamara. Distr. — Peru (Mamara). Ref. — Hering, 1941a:148.
- STONEI** Aczél, 1952b:271, text-fig. 6, pl. 2, E (head, ovipositor, wing). Type-locality: Panama, El Cermeño. Distr. — Panama (El Valle, Taboga I., Canal Zone, El Cermeño).
- TETRASPINA** (Phillips), 1923:132, pl. 18, fig. 16 (wing) (*Actura*). Type-locality: U.S.A., Missouri, Columbia. Distr. — U.S.A. (several localities), Mexico (several localities), Bahama Is. (Mayaguana I.), Brazil (Pernambuco). Refs. — Benjamin, 1934:46, figs. 33a-l (larva, pupa, adult); Aczél, 1952b:274, text-fig. 4, pl. 2, F (head, ovipositor, wing).
- THETIS** Hendel, 1914b:47. Type-locality: Bolivia, Songo. Distr. — Bolivia (Songo).
- UNIPUNCTA** Malloch, 1933:268, pl. 4, fig. 8 (wing). Type-locality: Paraguay, Encarnación. Distr. — Argentina (several localities), Brazil (Bahia), Paraguay (Encarnación). Refs. — Souza Lopes, 1939:425, pls. 1, 2 (♀ abdomen and ovipositor, spermatheca, ♂ genitalia, larva, damage); Aczél, 1949b:143, text-fig. 7, pl. 2, G (wing, head, ovipositor).

#### Genus ZONOSEMATA Benjamin

- ZONOSEMATA** Benjamin, 1934:17. Type-species, *Trypeta electa* Say (orig. des.).
- COCOYOC** Bush, 1965:319, figs. 6, 13, 28, 38, Map 1 wing, abdomen, thorax, distribution). Type-locality: Mexico, Morelos, Cocoyoc. Distr. — Mexico (Morelos).
- MINUTA** Bush, 1965:319, figs. 7, 15, 16, 31, 33, Map 1 (wing, abdomens, thorax, distribution). Type-locality: Jamaica, Montego Bay. Distr. — Jamaica (Montego Bay).
- VIDRAPENNIS** Bush, 1965:321, figs. 8, 14, 32, 34, Map 1 (wing, abdomen, thorax, distribution). Type-locality: Mexico, Oaxaca, Oaxaca. Distr. — Mexico (Oaxaca, Mexico, between Villa Guerrero and Tenanzigo).
- VITTIGERA** (Coquillett), 1899:261 (*Zonosema*). Type-locality: U.S.A., Texas, and northern Mexico. Distr. — U.S.A. (southwestern), Mexico (south to D.F.). Refs. — Aczél, 1954b:153 (text only; figs. are labelled as *variegata*); Foote, 1960d:115, fig. 4 (distribution); Cazier, 1962:181, figs. 1-8 (larva, pupa, injury, parasite, biology).
- variegata* Aczél, 1954b: figs. 21-27, pl. 2, C (head, palpus, antenna, abdomen, ovipositor, wing) Type-locality: unknown.

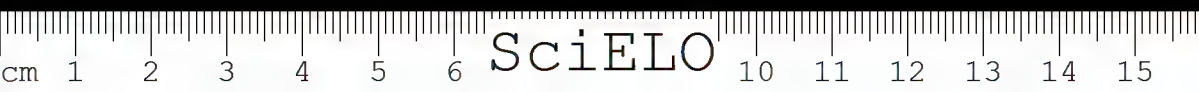
#### UNPLACED TEPHRITINAE

- AMEGHINOI** Brèthes, 1908b:471; unnumbered text-fig. (wing) (*Urellia*). Type-locality: Argentina, Chubut. Distr. — Argentina (Salta, Chubut).
- BASIFLAVA** Hering, 1942a:19, fig. 2 (wing) (*Trypanea*). Type-locality: Argentina, Salta.

- CANDIDA Hering, 1942a:20, fig. 24 (wing) (*Trypanea*). Type-locality: Argentina, Salta.
- CHARIESSA Hendel, 1914b:78, pl. 4, fig. 72 (wing) (*Trypanea*). Type-locality: Bolivia, Yungas road.
- DOLORES Hering, 1938a:192, fig. 5 (wing) (*Trypanea*). Type-locality: Brazil, Santa Catarina, Nova Teutônia.
- DURVILLE Macquart, 1843:384 (separate, p. 227), pl. 31, fig. 7 (wing) (*Actinia*). Type-locality: Chile, Concepción. Distr. — Peru, Chile. Ref. — Hering, 1941a:171.
- EDWARDSI Malloch, 1933:289, pl. 6, fig. 3 (wing) (*Trypanea*). Type-locality: Argentina, Mendoza, Potrerillos.
- LATIPENNIS Townsend. 1893:13 (*Euaresta*). Type-locality: Mexico, Chacaltianguis.
- MERIDIANA Becker, 1919:195, pl. 16, fig. 2 (wing) (*Euaresta*). Type-locality: Ecuador, Pinullar, Alausi.
- M-NIGRUM Hendel, 1914b:68, pl. 3, fig. 57 (wing) (*Euribia*). Type-locality: Argentina, Rivadavia.
- OBSCURELLA Blanchard, 1852:463 (*Ensina*). Type-locality: Chile, Illapel.
- PENTHERES Hendel, 1914b:79, pl. 4, fig. 74 (wing) (*Trypanea*). Type-locality: Peru, Cuzco. Ref. — Hering, 1941a:174.
- PHRYCTA Hendel, 1914b:80 (*Trypanea*). Type-locality: Peru, Urubamba River.
- phrycte*, error.
- POLYCLONA Loew, 1873:324 (*Trypeta*). Type-locality: "Cuba".
- PORTERI Séguy, 1933:256, pl. 8, fig. 1 (wing) (*Trypanea*). Type-locality: Ecuador, El Napo, Pajonales del Pichincha.
- SCUTELLATUS Séguy, 1933:258, pl. 8, fig. 3 (wing) (*Acanthiophilus*). Type-locality: Ecuador, Quito, Calderón.
- SEMIGUTTATA Becker, 1919:196, pl. 16, fig. 4 (wing) (*Tephritis*). Type-locality: Ecuador, Casitagua.
- SUSPECTA Malloch, 1933:279, pl. 4, fig. 12 (wing) (*Trypanea*). Type-locality: Argentina, Rio Negro, L. Correntoso. Distr. — Argentina (Rio Negro: L. Correntoso, Bariloche).
- VIDUA Hering, 1942a:30, fig. 19 (wing) (*Trypanea*). Type-locality: Chile, Cortaderal.
- ZONATA Hendel, 1914b:77, pl. 4, fig. 73 (wing) (*Trypanea*). Type-locality: Peru, Cuzco, Puno, L. Titicaca. Ref. — Hering, 1941a:176.

#### UNPLACED TEPHRITIDAE

- ANTILLARUM Macquart, 1851:262 (separate, p. 289), pl. 26, fig. 17 (wing) (*Urophora*). Type-locality: "Antilles".
- ATACTA Hendel, 1914b:62, pl. 3, fig. 51 (wing) (*Icteric*). Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Bahama Is. (New Providence I.), Paraguay.
- ATOMARIA Fabricius, 1805:329 (*Dictya*). Type-locality: "America meridionali".
- BAHIENSIS Macquart, 1851:261 (separate, p. 288), pl. 26, fig. 16 (wing) (*Urophora*). Type-locality: Brazil, Bahia.
- BASALIS Walker, 1852:380 (*Trypeta*). Type-locality: "Brazil". Refs. — Aczél, 1953b:184, fig. 43 (wing); Foote, 1964b:319.



- BELLA Blanchard, 1852:460 (*Acinia*). Type-locality: Chile, "de las Cordilleras del norte".
- BRASILIENSIS Lima, 1933:383, fig. 1 (wing) (*Acidia*). Type-locality: Brazil, Rio de Janeiro, Corcovado, Paineiras.
- CANCELLARIA Fabricius, 1805:328 (*Dictya*). Type-locality: "America meridionali".
- CINEREA Blanchard, 1852:461 (*Acinia*). Type-locality: Chile, Illapel.
- DELICATELLA Blanchard, 1852:459 (*Acinia*). Type-locality: Chile, Coquimbo.
- FALLAX Johnson, 1919:445 (*Acinia*). Type-locality: Jamaica, Blue Mountains, Yallahs Valley.
- FLEXUOSA Bigot, 1857a:305, pl. 7, fig. 4 (adult female) (*Urophora*). Type-locality: "Chile".
- GUTTATA Macquart, 1846:341 (separate, p. 213), pl. 18, fig. 16 (wing) (*Acinia*). Type-locality: Brazil, Minas Gerais.
- IMPLUVIATA Blanchard, 1852:461 (*Acinia*). Type-locality: Chile, "en las Cordilleras de Elqui".
- MARMORATA Blanchard, 1852:460, pl. 5, figs. 10a, 10b (adult dorsum, wing) (*Acinia*). Type-locality: Chile, "Cucac vic".
- MODESTA Blanchard, 1852:458 (*Acinia*). Type-locality: Chile, Coquimbo.
- NYMPHULA Blanchard, 1852:462 (*Acinia*). Type-locality: Chile, "prov. Coquimbo a Arqueros, etc".
- PLAGIATA Blanchard, 1852:458 (*Acinia*). Type-locality: "Chile".
- QUINQUEMACULATA Macquart, 1846:339 (separate, p. 211), pl. 18, fig. 13 (adult dorsum) (*Urophora*). Type-locality: "Brazil".
- SCUTELLATA Wiedemann, 1830:494 (*Trypeta*). Type-locality: "Mexico". Ref. — Loew, 1862b:97.
- SIMPLEX Blanchard, 1852:459 (*Acinia*). Type-locality: "Chile".
- STELLATA Macquart, 1843:384 (separate, p. 227), pl. 31, fig. 6 (adult dorsum) (*Acinia*). Type-locality: "Brazil".
- STRIOLA Fabricius, 1805:318 (*Tephritis*). Type-locality: "America meridionali".
- VARIA Walker, 1852:382 (*Trypeta*). Type-locality: "South America". Ref. Foote, 1964b:324.
- VITTIPES Rondani, 1868:30 (*Tephritis*). Type-locality: Argentina, Mendoza.
- VONEDA Walker, 1849:1028 (*Trypeta*). Type-locality: Brazil, Bahia. Ref. — Foote, 1964b:325.

#### LITERATURE CITED

ACZÉL, M.

- 1949a. Catalogo de la familia "Trypetidae" de la región Neotropical. *Acta Zool. Lilloana* 7:177-328.
- 1949b. The genus "*Xanthaciura*" based on Argentine species. *Acta Zool. Lilloana* 8:111-146, illus.
1950. Géneros y especies de la tribu "Trypetini". I. Dos géneros y tres especies nuevos de la Argentina. *Acta Zool. Lilloana* 9:307-323, illus.
- 1951a. Suplemento al "Catalogo de familia Trypetidae de la región Neotropical". *Acta Zool. Lilloana* 12:117-133.
- 1951b. Géneros y especies neotropicales de la tribu "Trypetini". II. Dos géneros y una especie nuevos. *Acta Zool. Lilloana* 12:253-278, illus.

- 1952a. Revisión parcial del género americano *Paracantha* Coquillett. *Acta Zool. Lilloana* 10:199-243, illus.
- 1952b. Further revision of the genus *Xanthaciura* Hendel (Trypetidae, Dipt.). *Acta Zool. Lilloana* 10:245-280, illus.
- 1952c. El género *Euaresta* Loew (*Camaromyia* Hendel) en la región neotropical. *Rev. Chilena de Entomol.* 2:147-172, illus.
- 1953a. La familia Tephritidae en la región neotropical. I. *Acta Zool. Lilloana* 13:97-200, illus.
- 1953b. The genus *Trupanea* Schrank in the Neotropical region. I. The *diespasmene*-group. *Dusenía* 4:273-286, illus.
- 1953c. The genus *Trupanea* in the Neotropical region. 2. The *argentina*-group. *Dusenía* 4:365-387, illus.
- 1954a. Géneros y especies de la tribus "Trypetini". 3. Sobre los géneros *Rhagoletis*, "*Phorellia*", y *Tomoplagioides*. *Dusenía* 5:71-94, illus.
- 1954b. Géneros y especies de la tribus Trypetini. 4. El género *Rhagoletotrypeta* y nuevas especies de *Tomoplagia* y *Zonosemata*. *Dusenía* 5:137-164, illus.
- 1955a. Fruit flies of the genus *Tomoplagia* Coquillett. *Proc. U. S. Nat. Mus.* 104(3343):321-411, illus.
- 1955b. The comparative morphology of the *Tomoplagia* Coquillett species. *Dusenía* 6:139-170.
- 1955c. The genus *Parastenopa* Hendel. *Wasmann J. Biol.* 13:167-187, illus.
1958. Revision of the American species of the genus *Acinia* Robineau-Desvoidy. *Rev. Brasil. Entomol.* 8:75-106, illus.
- ALDRICH, J. M.
1905. A catalogue of North American Diptera. *Smiths. Misc. Coll.* 46(2):1-680.
1923. Descriptions of lantana gall-fly and lantana seed-fly. *Proc. Hawaii. Entomol. Soc.* 5:261-263.
1925. New Diptera or two-winged flies in the United States National Museum. *Proc. U. S. Nat. Mus.* 66(Art. 18):1-36, illus.
1929. A revision of the two-winged flies of the genus *Procecidochares* in North America with an allied new genus. *Proc. U. S. Nat. Mus.* 76(2):1-13 (separate n° 2799).
- AUTUORI, M.
1936. Uma nova espécie do genero *Anastrepha* Schiner. *Rev. Entomol.* 6:194-196, illus.
- BAKER, A. C., W. E. STONE, C. C. PLUMMER & M. MCPHAIL
1944. A review of studies on the Mexican fruit fly and related Mexican species. *U. S. Dept. Agric. Misc. Publ.* 531:155 pp., illus.
- BATES, M.
- 1933a. Notes on West Indian Trypetidae. *Bull. Brooklyn Entomol. Soc.* 28:160-171, illus.
- 1933b. Notes on American Trypetidae. II. *Psyche* 40:48-56, illus.
1934. Notes on American Trypetidae. IV. *Acrotaenia* and similar genera. *Rev. de Entomol.* 4:1-17, illus.



BECKER, T.

1908. *Dipteren der Kanarischen Inseln* 4:1-180, illus.  
1919. Diptères, Brachychères. *Mission du Service géographique de l'Armée. Mesure d'un Arc de Méridien Équatorial en Amérique du Sud* 10(2):163-214, illus.

BENJAMIN, F. H.

1934. Descriptions of some native trypetid flies with notes on their habits. *U. S. Dept. Agric. Techn. Bull.* 401:95 pp., illus.

BEZZI, M.

1909. Le specie dei generi *Ceratitis*, *Anastrepha* e *Dacus*. *Bol. R. Scuola Super. d'Agr., Lab. Zool. Gen. e Agr. Portici* 3:273-313, illus.  
1910. Restaurazione del genere *Carpomyia* (Rond.) A. Costa. *Bol. Lab. Zool. Gen. Agr. R. Scuola Sup. d'Agr. Portici* 5:1-32, illus.  
1913. *Oedaspis*, genere di ditteri Trypaneidi cecidogeni. *Marcellia* 12: 144-156.  
1919a. Descoberta de uma nova mosca das fructas no Brazil. *Chacararas e Quintaes* (1919):373-374.  
1919b. Una nuova especie brasiliana del genere *Anastrepha*. *Bol. R. Scuola Sup. d'Agr., Lab. Zool. Gen. e Agr. Portici* 13:3-14, illus.  
1923. The genus *Urophora* Robineau-Desvoidy in America. *Trans. Amer. Entomol. Soc.* 49:1-6, illus.

BEZZI, M. & A. S. TAVARES

1916. Alguns Muscideos cecidogenicos do Brazil. *Broteria* (Ser. Zool.) 14(3):155-170.

BIGOT, J. M. F

- 1857a. Diptères nouveaux provenant du Chili. *Ann. Soc. Entomol. France* (3) 5:277-308, illus.  
1857b. Dipteros, pp. 328-349, in R. de la Sagra: *Historia fisica, politica y natural de la Isla de Cuba* 7:371 pp. Paris. "1856".  
1859. Dipterorum aliquot nova genera. *Rev. Mag. Zool.* 7:305-315, illus.  
1884. [Description d'un nouveau genre et d'une nouvelle espèce de la famille des Ortalidae]. *Ann. Soc. Entomol. France* (6) 4 (Bull.): xxix-xxx.  
1889a. Novum genus Dipterorum ex *Trypetidis*, genus *Chetostomae* (Rondani) sat vicinum. *Bull. Soc. Entomol. France* (1889): xxix-xxx.  
1889b. [Change of generic name]. *Ann. Soc. Entomol. France* (6) 9 (Bull.):xciii.

BLANC, F. L. & RICHARD H. FOOTE

1961. A new genus and five new species of California Tephritidae. *Pan-Pacific Entomol.* 37:73-83, illus.

BLANCHARD, E.

1852. Orden IX. Dípteros, pp. 327-468, in C. Gay, ed.: *Historia física y política de Chile, Zoología* 7:471 pp., illus.

BLANCHARD, E. E.

1929. Descriptions of Argentine Diptera. *Physis* 9:458-465, illus.  
1937. Dípteros Argentinos nuevos o poco conocidos. *Rev. Soc. Entomol. Argentina* 9:35-58.  
1938. Descripciones y anotaciones de dípteros argentinos. *An. Soc. Cient. Argentina* 126:345-386, illus.  
1959. El género "*Toxotrypana*" en la República Argentina. *Acta Zool. Lilloana* 17:33-44 illus.  
1961. Especies argentinas del género *Anastrepha* Schiner. *Revista Invest. Agric.* 15(2):281-342, illus.  
1965. Nueva Tephritinae dañina para *Coleus blumei* Bent. *Rev. Soc. Entomol. Argentina* 27:79-81.

BRÈTHES, J.

- 1908a. El género *Urellia* (Diptera) en el Plata. *An. Mus. Nac. Buenos Aires* 16:367-374, illus.  
1908b. Una nueva *Urellia* de Patagonia. *An. Mus. Nac. Buenos Aires* 16:471-472, illus.  
1916. Description d'un nouveau genre et d'une nouvelle espèce d'Ortalidae du Chili. *An. Zool. Aplicada* 3:12-13, illus.  
1919. Cueillette d'insectes au Río Blanco. *Rev. Chil. Hist. Nat.* 23:40-44, illus.

BRUCH, C. & E. E. BLANCHARD

1940. Observaciones biológicas sobre *Strobelia baccharidis* Rondani y descripción de dos Himenópteros. *Rev. Mus. La Plata (n.s.)* 2 (Sect. Zool.):85-98, illus.

BUSH, G. L.

1962. The cytotaxonomy of the larvae of some Mexican fruit flies in the genus *Anastrepha*. *Psyche* 68:87-101, illus.  
1965. The genus *Zonosemata*, with notes on the cytology of two species. *Psyche* 72:307-323, illus.  
1966. The taxonomy, cytology, and evolution of the genus *Rhagoletis* in North America. *Bull. Mus. Comp. Zool.* 134(11):431-562, illus.

CAMPOS R., F.

1960. Las moscas (Brachycera) del Ecuador. *Rev. Ecuat. Hig. Med. Trop.* 17(1):1-66.

CAPOOR, V. N.

1954. Uma nova espécie do gênero *Anastrepha*. *Agronomia* 12:213-215, illus.  
1955. Duas novas espécies do gênero *Anastrepha*. *Arq. Inst. Biol.* 22:23-30, illus.

CAZIER, M. A.

1962. Notes on the bionomics of *Zonosemata vittigera* (Coquillett), a fruit fly on *Solanum*. *Pan-Pacific Entomol.* 38:181-186, illus.

CHRISTENSON, L. D. & RICHARD H. FOOTE

1960. Biology of Fruit Flies. *Ann. Rev. Entomol.* 5:171-192.

COLE, F. R.

1923. Diptera from the islands and adjacent shores of the Gulf of California. II. General Report. *Proc. California Acad. Sci.* (4) 12:457-481, illus.

COQUILLETT, D. W.

1894. New North American Trypetidae. *Canad. Entomol.* 26:71-75.  
1899. Notes and descriptions of Trypetidae. *Jour. New York Entomol. Soc.* 7:259-268.  
1900. Report on a collection of Dipterous insects from Puerto Rico. *Proc. U. S. Nat. Mus.* 22:249-270.  
1904a. Diptera from southern Texas with descriptions of new species. *Jour. New York Entomol. Soc.* 12:27-35.  
1904b. New Diptera from Central America. *Proc. Entomol. Soc. Washington* 6:90-98.  
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.

CRESSON, E. T., JR.

1907. Some North American Diptera from the southwest. Paper II. *Trans. Amer. Entomol. Soc.* 33:99-108, illus.  
1914. Some nomenclatorial notes on the dipterous family Trypetidae. *Entomol. News* 25:275-279.  
1920. Descriptions of new North American acalyptrate Diptera. II (Trypetidae, Sapromyzidae). *Entomol. News* 31:65-67.

CURRAN, C. H.

1928. *Scientific Survey of Porto Rico and the Virgin Islands*. Vol. II, pt. 1, *Insects of Porto Rico and the Virgin Islands, Diptera or two-winged flies*, 118 pp. New York Academy of Sciences.  
1931. First supplement to the "Diptera of Porto Rico and the Virgin Islands". *Amer. Mus. Novitates* 456:1-23, illus.  
1932. New species of Trypaneidae, with key to the North American genera. *Amer. Mus. Novitates* 556:19 pp., illus.  
1934a. The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Amer. Mus. Nat. Hist.* 66:287-532, illus.  
1934b. *The Families and Genera of North American Diptera*, 512 pp. The Ballou Press, New York. (Revised 1964).  
1934c. The Templeton Crocker expedition of the California Academy of Sciences, 1932. N° 13. Diptera. *Proc. California Acad. Sci.* 21(13):147-172, illus.

DOANE, R. W.

1899. Notes on Trypetidae with description of new species. *Jour. New York Entomol. Soc.* 7:177-193, illus.

EMMART, E. W.

1933. The eggs of four species of fruit flies of the genus *Anastrepha*. *Proc. Entomol. Soc. Washington* 35:184-191, illus.  
1935. Studies of the chromosomes of *Anastrepha*. *Proc. Entomol. Soc. Washington* 37:119-135, illus.

ENDERLEIN, G.

1911. Trypetiden-Studien. *Zool. Jahrb., Abt. f. System., Geogr. u. Biol. Tiere* 31:407-460, illus.

FABRICIUS, J. C.

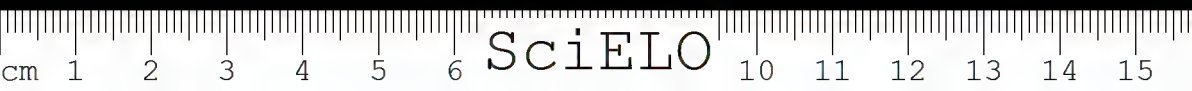
1794. *Entomologia systematica emendata et aucta* 4:472 pp. Hafniae.  
1805. *Systema Antliatorum, secundum ordines, genera, species*, 373 pp. Brunsvigae [= Brunswick]

FISCHER, C. R.

1932. Nota taxonomica e biologica sobre *Anastrepha grandis* Macq. *Rev. Entomol.* 2:302-310, illus.  
1933. Nota sobre *Anastrepha punctata* Hend. e uma especie nova de *Cyrtotonotum*. *Rev. de Entomol.* 3:83-92, illus.  
1934. Variação das cerdas frontaes e outras notas sobre duas especies de *Anastrepha*. *Rev. de Entomol.* 4:17-22, illus.

FOOTE, RICHARD H.

1958. The genus *Euaestoides* in the United States and Mexico. *Ann. Entomol. Soc. Amer.* 51:288-293, illus.  
1960a. The genus *Tephritis* Latreille in the Nearctic Region north of Mexico: Descriptions of four new species and notes on others. *Jour. Kansas Entomol. Soc.* 33:71-85, illus.  
1960b. The Tephritidae and Otitidae of the Bahama Islands. *Jour. N. Y. Entomol. Soc.* 68:83-99, illus.  
1960c. A new tephritid genus, *Rhagoletoides*, with notes on its distribution and systematic position. *Entomol. News* 71:145-149.  
1960d. Notes on some North American Tephritidae, with descriptions of two new genera and two new species. *Proc. Biol. Soc. Washington* 73:107-117, illus.  
1960e. A revision of the genus *Trupanea* in America north of Mexico. *U. S. Dept. Agric. Techn. Bull.* 1214:29 pp., illus.  
1962. The types of North American Tephritidae in the Snow Museum, the University of Kansas. *Jour. Kansas Entomol. Soc.* 35:170-179.  
1964a. *Acinia picturata* (Snow), a resurrected synonym. *Proc. Entomol. Soc. Washington* 66:84.  
1964b. Notes on the Walker types of new World Tephritidae. *Jour. Kansas Entomol. Soc.* 37:316-326.





- 1965a. Family Tephritidae, pp. 658-678 in A. Stone, et. al., eds.: A Catalog of the Diptera of America North of Mexico. U. S. Dept. Agric. Agriculture Handbook 276:1696 pp.
- 1965b. A study of the types of Tephritidae described by F. M. van der Wulp in "Biologia Centrali-Americana". *Jour. Kansas Entomol. Soc.* 38:236-247.
- 1966a. Notes on the types of Tephritidae described by R. W. Doane. *Proc. Entomol. Soc. Washington* 68 (2):120-126.
- 1966b. The genus *Rhagoletotrypeta*, with a new Nearctic species. *Ann. Entomol. Soc. Amer.* 59(4):803-807.

FREY, R.

1945. Tiergeographische Studien über die Dipterenfauna der Azoren. I. Verzeichniss ber bisher von den Azoren bekannten Dipteren. *Finska Vetensk. Soc., Comm. Biol.* 8(10):1-114, illus.

GERSTÄCKER, A.

1860. Beschreibung einiger ausgezeichneten neuen Dipteren aus der Familie Muscarie. *Stettiner Entomol. Ztg.* 21:163-208, illus.

GIBSON, W. W. & J. L. CARILLO S.

1959. *Lista de insectos en la colección entomológica de la oficina de estudios especiales, S.A.G.* Secretaría de Agricultura y Ganadería, Mexico City, 254 pp.

GIGLIO-TOS, E.

1893. Diagnosi di nuovi generi e di nuove specie di Ditteri. IX. *Boll. Mus. Zool. Anat. Comp.* 8 (n° 158):1-14.
1895. Ditteri del Messico. Parte IV. Muscidae Calypteratae, Muscidae Acalypteratae. *Mem. Reale Accad. Sci. Torino* (2) 45:74 pp., illus.

GREENE, C. T.

1929. Characters of the larvae and pupae of certain fruit flies. *Jour. Agr. Res.* 38:489-504, illus.
1934. A revision of the genus *Anastrepha* based on a study of the wings and on the length of the ovipositor sheath. *Proc. Entomol. Soc. Washington* 36:127-179, illus.

GUETTARD, J. E.

1762. Observations qui peuvent servir à former quelques caractères de coquillages. *Mém. Acad. Roy. Sci., Hist., avec Mathém. et Phys.*, Paris 1756:145-183.

HARDY, D. E.

1949. Studies in Hawaiian fruit flies. *Proc. Entomol. Soc. Washington* 51:181-205, illus.
1959. The Walker types of fruit flies in the British Museum collection. *Bull. Brit. Mus. (Nat. Hist.)* 8(5):159-242, illus.

HAVRYLENKO, D. & J. WINTERHALTER

1949. *Insectos del Parque Nacional Nahuel Huapi*, 100 pp., illus. Buenos Aires.

HAYWARD, K. J.

1942. Primeira lista de insectos tucumanos perjudiciales. *Publ. Misc. Estación Exp. Agric. Tucumán* 1:32.

HENDEL, F.

- 1914a. Die Gattungen der Bohrfliegen (analytische Uebersicht aller bisher bekannten Gattungen der Tephritinae). *Wien. Entomol. Ztg.* 33:73-98.  
1914b. Die Bohrfliegen Südamerikas. *K. Zool. Anthropol.-Ethnogr. Mus. Abhandl. Ber.* (1912) 14(3):1-84, illus.  
1927a. Trypetidae. Family 49, in E. Lindner, ed.: *Die Fliegen der Palaearktischen Region* 5:221 pp., illus.  
1927b. Einige neue Bohrfliegen (Trypetidae) aus dem Hamburger Museum. *Wiener Entomol. Ztg.* 44:58-65 (sep.).  
1928. Neue oder weniger bekannte Bohrfliegen (Trypetidae) aus dem Deutschen Entomologischen Institut Berlin-Dahlem. *Entomol. Mitt.* 17:341-370.  
1935. Bemerkungen zu "The Families and Genera of North American Diptera" by C. H. Curran, New York, 1934. *Konowia* 14:51-57.  
1936. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny. X Teil; Diptera: Muscidae acalyptratae (excl. Chloropidae). *Ann. Naturhist. Mus. Wien* 47:61-106, illus.

HERING, E. M.

1935. Neue südamerikanische Bohrfliegen aus dem Stettiner Museum. *Stettiner Entomol. Ztg.* 96:225-229, illus.  
1936. Neue südamerikanische Trypanea-Arten (13. Beitrag zur Kenntniss der Trypetidae). *Rev. Entomol.* 6:327-332, illus.  
1937. Neue neotropische Bohrfliegen aus dem Hamburger Museum. *Rev. Entomol.* 7:296-302, illus.  
1938a. Neue Bohrfliegen aus Brasilien (32. Beitrag zur Kenntniss der Trypetidae). *Rev. Entomol.* 8:187-196, illus.  
1938b. Neue palaearktische und exotische Bohrfliegen (21. Beitrag zur Kenntniss der Trypetidae). *Deutsche Entomol. Zeitschr.* 2:397-417, illus.  
1939. Neue Trypetiden der Erde (25. Beitrag zur Kenntniss der Trypetidae). *VII Int. Congr. Entomol.* (1938) 1:165-190, illus.  
1940a. 1. Neue Arten und Gattungen. *Siruna Seva* 1:1-16, illus.  
1940b. Neue alt- und neuweltliche Bohrfliegen. *Arb. Morphol. Tax. Entomol.*, Berlin-Dahlem 7:50-57, illus.  
1940c. Alte und neue Bohrfliegen der Erde (29. Beitrag zur Kenntniss der Trypetidae). *Stettiner Entomol. Ztg.* 101:23-24, illus.  
1941a. Trypetidae, in *Beiträge zur Fauna Perus* 1:121-176, illus.  
1941b. Fünf neue neotropische Fruchtfliegen. *Rev. Entomol.* 12:474-480, illus.

- 1941c. Neue Dacinae und Trypetinae des Zoologischen Museums der Universität Berlin. *Siruna Seva* 3:1-25, illus.
- 1942a. Neue Gattungen und Arten palaearktischer und exotischer Fruchtfliegen. *Siruna Seva* 4:1-31, illus.
- 1942b. Neue Gattungen und Arten von Fruchtfliegen aus dem Zoologischen Museums der Universität Berlin. *Mitt. Zool. Mus. Berlin* 25:274-291, illus.
- 1944a. Neue Gattungen und Arten von Fruchtfliegen der Erde. *Siruna Seva* 5:1-17, illus.
- 1944b. Bestimmungstabelle der Gattung *Tephritis* Latreille, 1804. *Siruna Seva* 5:17-31.
- 1947a. Neue Gattungen und Arten der Fruchtfliegen. *Siruna Seva* 6:1-12, illus.
- 1947b. Bestimmungstabelle der Unterfamilien und Tribus der Trypetidae. *Siruna Seva* 6:12-16.
1953. Neue Fruchtfliegen von China, Vorderasien, Brasilien und Guatemala. *Siruna Seva* 8:1-16, illus.
1961. Beiträge zur Kenntniss der Insektenfauna Boliviens. XVI. Diptera. I. Alte und neue Fruchtfliegen von Bolivien. *Opusc. Zool.* 57:1-7, illus.

HERRERA, A. L., A. F. RANGEL & L. DE LA BARREDA

1900. El gusano de la fruta. *Bol. Comisión Parasitol. Agric.* 1(1): 1-30, illus.

IHERING, R. VON

1912. *As moscas das fructas e sua destruição*, 2ª edic. São Paulo, Brazil, 47 pp., illus.

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

1963. Opinion 678. The suppression under the Plenary Powers of the pamphlet published by Meigen, 1800. *Bull. Zool. Nomencl.* 20:339-342.

JOHNSON, C. W.

1919. A revised list of the Diptera of Jamaica. *Bull. Amer. Mus. Nat. Hist.* 41:421-449.

KIEFFER, J. J. & P. JÖRGENSEN

1910. Gallen und Gallentiere aus Argentinien. *Centralbl. Bakteriöl., Parasitenk. und Infektionskr.* (2) 27:362-444, illus.

KNAB, F.

1915. A new American fruit-fly. *Insec. Insc. Menstr.* 3:146.

LATREILLE, P. A.

1804. Tableau méthodique des Insectes, pp. 129-200, in Société de Naturalistes et d'Agriculteurs: *Nouveau dictionnaire d'histoire naturelle, appliqué aux arts, principalement à l'agriculture et à l'économie rurale et domestique* 24(3): Tableaux méthodiques d'histoire naturelle, 238 pp., illus. Paris.

LIMA, A. M. DA COSTA

1933. Notas sobre trypetidas brasileiras (I) *Rev. Entomol.* 3:382-384, illus.
- 1934a. Moscas de frutas do genero *Anastrepha* Schiner, 1868. *Mem. Inst. Oswaldo Cruz* 28:487-575, illus.
- 1934b. Notas sobre tripetidas brasileiras (II). Espécies cecidógenas da América do Sul. *Arq. Inst. Biol. Veget.* 1:115-130, illus.
- 1934c. Notas sobre tripetidas brasileiras (III). *Arq. Inst. Biol. Veget.* 1:139-141, illus.
- 1935a. Notas sobre trypetidas brasileiras (IV). Moscas do gênero *Hexachaeta* Loew. *An. Acad. Brasil. Ci.* 7:235-250.
- 1935b. Notas sobre trypetidas brasileiras (V). *Rev. Entomol.* 5:199-202.
1936. Dois novos insectos de *Xanthium*. *An. Acad. Brasil. Ci.* 8:157-161, illus.
1937. Novas moscas de fructas do gênero *Anastrepha*. *O Campo* 8: 34-38 (June), 60-64 (October), illus.
1938. Novas moscas de frutas do gênero "*Anastrepha*". *O Campo* 9: 16 (March), 61-63 (January), illus.
1947. Uma nova mosca de fruta do gênero *Cryptodacus*. *An. Acad. Brasil. Ci.* 19:153-157, illus.
- 1953a. Moscas de frutas do U. S. National Museum (Smithsonian Institution) (I). *An. Acad. Brasil. Ci.* 25:151-152, illus.
- 1953b. Moscas de frutas do U. S. National Museum (Smithsonian Institution) (II). *An. Acad. Brasil. Ci.* 25:153-155, illus.
- 1953c. Moscas de frutas do U. S. National Museum (Smithsonian Institution) (III). *An. Acad. Brasil. Ci.* 25:557-566, illus.
- 1954a. Moscas de frutas do U. S. National Museum (Smithsonian Institution) (IV). *An. Acad. Brasil. Ci.* 26:277-282, illus.
- 1954b. Uma nova mosca de frutas. *Rev. Brasil. Entomol.* 1:173-175, illus.

LIMA, A. M. DA COSTA & I. DA COSTA LEITE

1952. Mósas dos gêneros *Hexachaeta* e *Blepharoneura* (Diptera -- Trypetidae). *Mem. Inst. Oswaldo Cruz* 50:297-310, illus.

LINDNER, E.

1928. Die Ausbeute der Deutschen Chaco-Expedition. Diptera. Einleitung. I. Trypetidae und II. Pterocallidae. *Konowia* 7:24-36, illus.

LOEW, H.

- 1862a. *Diptera Americae septentrionalis indigena. Centuria secunda.* Berlin. *Entomol. Zeitschr.* 6:185-232. (Also published in Loew, 1864).
- 1862b. Monographs of the Diptera of North America. Part I. *Smithsonian Misc. Coll.* 6(1) (publ. 141): 1-221, illus.
- 1862c. *Die europäischen Bohrfliegen (Trypetidae)*, 128 pp. illus. Wien.
1864. *Diptera Americae septentrionalis indigena 1* (Centuriae 1-5): 266 pp. Berolini [= Berlin], "1861".



1873. Monographs of the Diptera of North America. Pt. III. *Smithsonian Misc. Coll.* 11(3) (publ. 256): 1-351, illus.

LUTZ, A. & A. M. DA COSTA LIMA

1918. Contribuição para o estudo das Tripaneidas (moscas de frutas) brasileiras. *Mem. Inst. Oswaldo Cruz* 10:5-15, illus.

MACLEAY, W. S.

1829. Notice of *Ceratitis citriperda*, an insect very destructive to oranges. *Zool. Jour.*, London 4:475-482.

MACQUART, J.

1835. *Histoire naturelle des Insectes. Diptères* 2:703 pp., illus., in N. E. Roret, ed.: *Collection des Suites à Buffon*. Paris.

1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. Sci., Agric., Arts, Lille* (1842): 162-460, illus. (published separately as Vol. 2, pt. 3, pp. 4-304, illus.).

1846. Diptères exotiques nouveaux ou peu connus. Ier. Supplément. *Mém. Soc. Roy. Sci., Agric., Arts, Lille* (1845) (1844):133-364, illus. (published separately as "Supplément I, pp. 5-238, illus.).

1847. Diptères exotiques nouveaux ou peu connus. 2e. supplément. *Mém. Soc. Roy. Sci., Agric., Arts Lille* (1846):21-120, illus. (published separately as "Supplément" II, pp. 5-104, illus.).

1848. Diptères exotiques nouveaux ou peu connus. Suite du 2me. Supplément (3me. supplément). *Mém. Soc. Roy. Sci., Agric., Arts Lille* (1847) 2:161-237, illus. (published separately as "Supplément" III, pp. 1-77, illus.).

1851. Diptères exotiques nouveaux ou peu connus. Suite du 4me. Supplément. *Mém. Soc. Roy. Sci., Agric., Arts Lille* (1850): 134-294, illus. (published separately as "Supplément" IV (part), pp. 161-336, illus.).

1855. Diptères exotiques nouveaux ou peu connus. 5me. supplément. *Mém. Soc. Imp. Sci., Agric., Arts Lille* (1854): 25-156, illus. (published separately as "Supplément V", pp. 5-136, illus.).

MALLOCH, J. R.

1933. Acalyptrata, pp. 177-391, illus. (= fasc. 4, cont'd.), in British Museum (Natural History): *Diptera of Patagonia and South Chile* 6:499 pp., illus.

1934. A new species of the genus *Xanthaciura* Hendel. *Stylops* 3(4): 78-79, illus.

1941a. The American genus *Paracantha* Coquillett. *Rev. Entomol* 12: 32-42, illus.

1941b. Venezuelan Diptera. I. *Bol. Soc. Venez. Cienc. Nat.* 7:123-126, 126.

1942. Notes on two genera of American flies of the family Trypetidae. *Proc. U. S. Nat. Mus.* 92:1-20, illus. (separate n° 3133).

- d'après un plan tout nouveau, 40 pp., Paris.
1800. *Nouvelle classification des mouches à deux ailes (Diptera L.) zweiflügeligen Insekten. Mag. f. Insektenkunde* 2:259-281.
1803. Versuch einer neuen Gattungseintheilung der europäischen
- MEIGEN, J. W.
- MUNRO, H. K.
1957. Trypetidae, in *Ruwenzori Expedition, 1934-35, British Museum (Natural History)* 2(9):853-1054, illus.
1964. The genus *Trupanea* in Africa: an analytical study in biotaxonomy. *Memoir So. Africa Dept. Agric., Techn. Serv.* 8:101 pp., illus.
- PETERSON, A.
1951. *Larvae of insects. An introduction to Nearctic species* 2:416 pp., illus. Columbus, Ohio.
- PHILIPPI, R. A.
1873. Chilenische Insekten. *Stettiner Entomol. Ztg.* 34:296-321, illus.
- PHILLIPS, V. T.
1923. A revision of the Trypetidae of northeastern America. *Jour. New York Entomol. Soc.* 31:119-154, illus.
1946. The biology and identification of trypetid larvae. *Mem. Amer. Entomol. Soc.* 12:1-161, illus.
- QUISENBERRY, B. F.
1950. The genus *Euaresta* in the United States. *Jour. New York Entomol. Soc.* 58:9-38, illus.
- RIESLE S., ROBERTO
1922. Una nueva plaga de la agricultura. La mosca de las cerezas. *Agronomia (Soc. Agron. de Chile)* 12(7/8):6.
- ROBINEAU-DESVOIDY, J. B.
1830. *Éssai sur les Myodaires. Institut de France, Classe des Sciences Mathématiques et Physique, Académie Royales des Sciences, Mém. présentés par divers savans* (2) 2:1-813, Paris.
- RONDANI, C.
1868. Diptera aliqua in America meridionali lecta. *Ann. Soc. Nat. Modena* 3:24-40, illus.
1870. Orthalidinae Italicae collectae, distinctae et in ordinem dispositae. *Boll. Soc. Ent. Ital.* 2:5-31.
1871. Orthalidinae Italicae collectae, distinctae et in ordinem dispositae. *Dipterologiae Italicae Prodrumi, Pars VII. Fasc. 4 (concl.). Boll. Soc. Ent. Ital.* 3:3-24, 161-188.



SAY, T.

1830. Descriptions of North American dipterous insects. *Jour. Acad. Nat. Sci. Philadelphia* 6:183-188 (also published in J. L. LeConte, ed.: "The complete writings of Thomas Say on the Entomology of North America, vol. 2, 814 pp., New York).

SCHINER, I. R.

1868. Diptera (Art. 1), 388 pp., illus., in *Reise der österreichische Fregatte Novara um die Erde*, Zool., 2 (Abt. 1, Sect. B), Wien.

SCHRANK, F. VON P.

1795. *Naturhistorische un ökonomische Briefe über das Donaumoos*. 211 pp., illus. Mannheim.

SÉGUY, E.

1933. Diptères neotropiques nouveaux. *Rev. Chilena Hist. Nat.* 37: 256-260, illus.

SEIN, F., JR.

1933. *Anastrepha* fruit flies in Puerto Rico. *Jour. Puerto Rico Dept. Agric.* 17:183-196, illus.

SHAW, J. C.

1962. Species of the *spatulata* group of *Anastrepha*. *Jour. Kansas Entomol. Soc.* 35:408-414, illus.

SMYTH, E. G.

1960. A new tephritid fly injurious to tomatoes in Peru, *Rhagoletis lycopersella* Smyth. *Bull. California Dept. Agric.* 49:16-22, illus.

SNODGRASS, R. E.

1924. Anatomy and metamorphosis of the apple maggot, *Rhagoletis pomonella* Walsh. *J. Agric. Res.* 28(1):1-36, illus.

SNOW, W. A.

1894. Descriptions of North American Trypetidae, with notes. *Kansas Univ. Quart.* 2:159-174, illus.

SOUZA LOPES, H. DE

1939. Sobre a *Xanthaciura unipuncta* Malloch. 1933. *Livro de homenagem aos Profs. Alvaro e Miguel Ozorio de Almeida*, Rio de Janeiro, pp. 425-427, illus.

STONE, A.

- 1939a. A revision of the genus *Pseudodacus* Hendel. *Rev. de Entomol.* 10:282-289, illus.  
1939b. A new genus of Trypetinae near *Anastrepha*. *Jour. Washington Acad. Sci.* 29:340-350, illus.

- 1942a. The fruitflies of the genus *Anastrepha*. U. S. Dept. Agric. Misc. Publ. 439:112 pp., illus.
- 1942b. New species of *Anastrepha* and notes on others. Jour. Washington Acad. Sci. 32:298-304, illus.
1947. A new *Procecidochares* from *Eupatorium* stems. Proc. Hawaiian Entomol. Soc. 13:97-98, illus.

STUARDO ORTIZ, C.

1929. Observaciones sobre las agallas blancas de *Baccharis rosmarinifolia* Hook. y el diptero que las produce. Rev. Chilena Hist. Nat. 33:345-349, illus.
1946. Catalogo de los Dipteros de Chile, 250 pp. Ministerio de Agricultura, Santiago.

THOMSON, C. G.

1869. 6. Diptera. Species nova descripsit, pp. 443-614, in K. Svenska Vetenskaps-Akademien, Kongliga svenska Fregatten *Eugenies resa omkring jorden*, Pt. 2, Zoologie, Sec. 1: Insekter, 617 pp., illus.

TOWNSEND, C. H. T.

1893. A new trypetid from Chacaltianguis, Mexico, with a note on *Hexachaeta amabilis* Lw. Zoe 4:13-16.
1913. The peruvian fruit-fly (*Anastrepha peruviana* n. sp.). Jour. Econ. Entomol. 6:345-346.

WALKER, F. M.

1837. Descriptions, etc., of the insects collected by Captain P.P. King, R.N., F.R.S., in the survey of the Straits of Magellan. Diptera. Trans. Linnean Soc. London 17:357-358.
1849. List of the specimens of dipterous insects in the collection of the British Museum 4:689-1172. British Museum (Nat. Hist.). London.
1852. *Insecta Saundersiana, or characters of undescribed insects in the collection of W. W. Saunders. Diptera*, 4:378-388.
1857. Characters of undescribed Diptera in the collection of W. W. Saunders. Trans. Entomol. Soc. London (n.s.) 4:229-231.

WALSH, B. D.

1867. The apple worm and the apple maggot. *Carpocapsa pomonella* (Linnaeus), *Trypeta pomonella*, new species. Amer. Jour. Hort. and Florists Companion 2:338-343, illus.

WEEMS, H. V., JR.

1965. *Anastrepha suspensa* (Loew). Florida Dept. Agric., Div. Plant Industry, Entomolog. Circ. 29:4 pp., illus.



WESTWOOD, J. O.

1840. Order XIII. Diptera Aristotle (Antliata Fabricius, Halteriptera Claiv.) pp. 125-158, in his *An Introduction to the modern classification of Insects. Synopsis of the genera of British Insects*, 158 pp. London.

WEYENBERGH, H.

1874. Los insectos dañinos a la agricultura Argentina, N° 6. *An. Agric., Argentina* 2:165, illus.  
1882. *Trypeta* (*Icaria*) *scudleri* n. sp. und ihre eigenthümliche Lebensweise. *Verhandl. zool.-bot. Ges. Wien* 32:363-368, illus.

WIEDEMANN, C. R. W.

1824. *Munus rectoris in Academia Christiana Albertina aditurus. Analecta Entomologica ex Museo Regio Havniensi maxime congesta* ("Analecta Entomologica"), 60 pp., illus.  
1830. *Aussereuropäische zweiflügelige Insekten* 2:xii + 684 pp., illus. Hamm.

WILLISTON, S. W.

1896. On the Diptera of St. Vincent (West Indies). *Trans. Entomol. Soc. London* (1896): 253-446, illus.

WULF, F. M. VAN DER

- 1899-1900. Group Trypetinae, pp. 401-428, pls. 11 and 12, Fam. Muscidae, in F. D. Godman & O. Salvin; eds.: *Biologia Centrali-Americana, Zoologia-Insecta-Diptera* 2:489 pp., illus.

YEPEZ, F. F.

1953. Contribución al estudio de las moscas de las frutas del género *Anastrepha* Schiner (Diptera: Trypetidae) de Venezuela. *Congr. Cienc. Nat. y Afines* (Caracas), Cuad. 7:42 pp., illus.

## INDEX

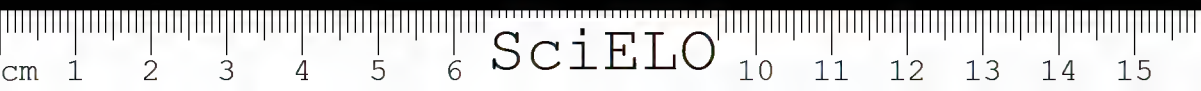
|   |             |
|---|-------------|
| aberrans Aczél, 1954, <i>Tomoplagia</i> .....                           | 57.45       |
| aberrans (Schiner), 1868 ( <i>Oxyphora</i> ), <i>Neotephritis</i> ..... | 57.32       |
| obscura error, <i>Hexachaeta</i> .....                                  | 57.27       |
| abstersus (Loew), 1862 ( <i>Trypeta</i> ), <i>Euarestoides</i> .....    | 57.24       |
| acidusa, authors, <i>Anastrepha</i> .....                               | 57.13       |
| acidusa (Walker), 1849 ( <i>Trypeta</i> ), <i>Lucumaphila</i> .....     | 57.30       |
| acidusiformis Blanchard, 1961, <i>Anastrepha</i> .....                  | 57.11       |
| <i>Acinia</i> Robineau-Desvoidy, 1830 .....                             | 57.4        |
| <i>Acinra</i> , authors .....   | 57.5, 57.55 |
| <i>Aciurina</i> Curran, 1932 .....                                      | 57.5        |
| acompsa (Hendel), 1914 ( <i>Tephritis</i> ), <i>Urophora</i> .....      | 57.54       |
| acris Stone, 1942, <i>Anastrepha</i> .....                              | 57.6        |

57.72

|  |       |
|--|-------|
| <i>Acrotaenia</i> Loew, 1873 .....   | 57.5  |
| <i>Acrotaeniacantha</i> Hering, 1939 .....   | 57.6  |
| <i>Acrotoxa</i> Loew, 1873 .....   | 57.6  |
| <i>actinobola</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Trupanea</i> .....                       | 57.49 |
| <i>acutangulus</i> (Thomson), 1869 ( <i>Trypeta</i> ), <i>Euarestoides</i> .....               | 57.24 |
| <i>aczeli</i> Blanchard, 1961, <i>Anastrepha</i> .....   | 57.6  |
| <i>aczeli</i> Lima, 1954, <i>Eutreta</i> .....   | 57.24 |
| <i>adelphica</i> (Hendel), 1914 ( <i>Euaresta</i> ), <i>Dyseuaresta</i> .....                  | 57.22 |
| <i>adjacens</i> (Hering), 1941 ( <i>Euribia</i> ), <i>Urophora</i> .....                       | 57.54 |
| <i>adspersa</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Pseudeutreta</i> .....                | 57.38 |
| <i>aegiphilae</i> Lima, 1935, <i>Hexachaeta</i> .....  | 57.27 |
| <i>aerea</i> (Hering), 1941 ( <i>Euribia</i> ), <i>Urophora</i> .....                          | 57.54 |
| <i>aesia</i> (Walker), 1849 ( <i>Trypeta</i> ), <i>Paroxyna</i> .....                          | 57.34 |
| <i>aex</i> (Walker), 1849 ( <i>Trypeta</i> ), <i>Hexachaeta</i> .....                          | 57.28 |
| <i>agnata</i> (Hering), 1942 ( <i>Euribia</i> ) <i>Urophora</i> .....                          | 57.54 |
| <i>alboguttata</i> Hendel, 1914, <i>Strobelia</i> .....  | 57.42 |
| <i>alpha</i> Malloch, 1933, <i>Trupanea</i> .....  | 57.50 |
| <i>aldrichi</i> (Aczél), 1953 ( <i>Trupanea</i> ), <i>Tephritis</i> .....                      | 57.43 |
| <i>alveata</i> Stone, 1942, <i>Anastrepha</i> .....  | 57.6  |
| <i>alveatoides</i> Blanchard, 1961, <i>Anastrepha</i> .....                                    | 57.7  |
| <i>amabilis</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Hexachaeta</i> .....                       | 57.26 |
| <i>amazonensis</i> Lima & Leite, 1952, <i>Blepharoneura</i> .....                              | 57.18 |
| <i>ameghinoi</i> Brèthes, 1908, ( <i>Urellia</i> ) .....                                       | 57.56 |
| <i>amnis</i> Stone, 1942, <i>Anastrepha</i> .....  | 57.7  |
| <i>Anastrepha</i> Schiner, 1868 .....  | 57.6  |
| <i>anastrephoides</i> (Curran), 1934 ( <i>Kartabia</i> ), <i>Parastenopa</i> .....             | 57.33 |
| <i>anduzei</i> Malloch, 1941, <i>Neorhabdochaeta</i> .....                                     | 57.31 |
| <i>anduzei</i> Stone, 1942, <i>Anastrepha</i> .....  | 57.7  |
| <i>angustipennis</i> (Philippi), 1873 ( <i>Percnoptera</i> ), <i>Rhachiptera</i> ...           | 57.40 |
| <i>angustipennis</i> (Wulp), 1900 ( <i>Euaresta</i> ), <i>Tetreuaresta</i> .....               | 57.43 |
| <i>annulata</i> Aczél, 1954, <i>Rhagoletotrypeta</i> .....                                     | 57.41 |
| <i>anomala</i> Stone, 1942, <i>Anastrepha</i> .....  | 57.7  |
| <i>anteapicalis</i> Hendel, 1914, <i>Pseudeutreta</i> .....                                    | 57.38 |
| <i>antillarum</i> Macquart, 1851 ( <i>Urophora</i> ) .....                                     | 57.57 |
| <i>antunesi</i> Lima, 1938, <i>Anastrepha</i> .....  | 57.7  |
| <i>aorista</i> (Hendel), 1914 ( <i>Trypanea</i> ), <i>Tephritis</i> .....                      | 57.43 |
| <i>aphelocentema</i> Stone, 1942, <i>Anastrepha</i> .....                                      | 57.7  |
| <i>apiata</i> (Wulp), 1899 ( <i>Acrotaenia</i> ), <i>Pseudacrotaenia</i> .....                 | 57.37 |
| <i>apicalis</i> (Coquillett), 1904 ( <i>Icteric</i> ), <i>Ictericodes</i> .....                | 57.28 |
| <i>apicalis</i> Hendel, 1928, <i>Dyseuaresta</i> .....   | 57.22 |
| <i>apicata</i> (Becker), 1919 ( <i>Tephritis</i> ), <i>Plaumannimyia</i> .....                 | 57.35 |
| <i>apicata</i> Hering, 1935, <i>Eutreta</i> .....  | 57.24 |
| <i>apotela</i> (Hendel), 1914 ( <i>Trypanea</i> ), <i>Trypanaresta</i> .....                   | 57.53 |
| <i>araneosa</i> (Coquillett), 1894 ( <i>Trypeta</i> ), <i>Tephritis</i> .....                  | 57.43 |
| <i>arcuata</i> Hendel, 1914, <i>Parastenopa</i> .....  | 57.33 |
| <i>argentina</i> (Brèthes), 1908 ( <i>Urellia</i> ), <i>Trupanea</i> .....                     | 57.49 |
| <i>argentiniensis</i> (Aczél), 1950 ( <i>Serpentinographa</i> ), <i>Rhagoletotrypeta</i> ..... | 57.41 |
| <i>argentiniensis</i> Aczél, 1955, <i>Tomoplagia</i> .....                                     | 57.45 |
| <i>argus</i> (Walker), 1849 ( <i>Trypeta</i> ), <i>Acrotaenia</i> .....                        | 57.6  |
| <i>asteroides</i> Hendel, 1914, <i>Trupanea</i> .....  | 57.49 |
| <i>arsinoe</i> Hering, 1942, <i>Tomoplagia</i> .....   | 57.45 |
| <i>asteroides</i> Hendel, 1914, <i>Trupanea</i> .....  | 57.49 |

|  |       |
|--|-------|
| atacta Hendel, 1914 (Icterica) .....                                 | 57.57 |
| atelesta Hendel, 1914, Tomoplagia .....                              | 57.45 |
| atimeta Hendel, 1914, Tomoplagia .....                               | 57.45 |
| atomaria Fabricius, 1805 (Dictya) .....                              | 57.57 |
| atra (Loew), 1862 (Trypeta), Procecidochares .....                   | 57.36 |
| atrigona Hendel, 1914, Anastrepha .....                              | 57.7  |
| atrox Aldrich, 1925, Phobema .....                                   | 57.35 |
| audax (Giglio-Tos), 1893 (Euaresta), Dyseuaresta .....               | 57.23 |
| aurata Aczél, 1958, Acinia .....                                     | 57.4  |
| aurifera (Thomson), 1869 (Trypeta), Dioxyna .....                    | 57.22 |
| austera Hering, 1942, Trupanea .....                                 | 57.49 |
| australis Blanchard, 1959, Toxotrypana .....                         | 57.48 |
| australis Malloch, 1933, Paracantha .....                            | 57.32 |
|  |       |
| baccharidis (Kieffer & Jörgenson), 1910 (Aciura), Pseudeutreta ..... | 57.38 |
| baccharidis Rondani, 1868, Strobelia .....                           | 57.42 |
| baccharis (Coquillett), 1894 (Trypeta), Eutreta .....                | 57.25 |
| bahiensis Lima, 1937, Anastrepha .....                               | 57.7  |
| bahiensis Macquart, 1851 (Urophora) .....                            | 57.57 |
| balloui Stone, 1942, Anastrepha .....                                | 57.7  |
| barbiellinii Lima, 1938, Anastrepha .....                            | 57.7  |
| barbiellinii Lima, 1935, Hexachaeta .....                            | 57.26 |
| barnesi Aldrich, 1925, Anastrepha .....                              | 57.7  |
| bartica Bates, 1933, Tetreuaresta .....                              | 57.44 |
| <i>Baryphlegma</i> , error .....                                     | 57.17 |
| Baryplegma Wulp, 1899 .....  | 57.17 |
| basalis Walker, 1852, (Trypeta) .....                                | 57.57 |
| basifasciata Hering, 1941, Paroxyna .....                            | 57.34 |
| basiflava Hering, 1942, Trypanea .....                               | 57.56 |
| basilica Snow, 1894, Polymorphomyia .....                            | 57.36 |
| basistriga Malloch, 1933, Trupanea .....                             | 57.49 |
| beckeri Hering, 1953, Polionota .....                                | 57.36 |
| bella Blanchard, 1852 (Acinia) .....                                 | 57.58 |
| bella (Loew), 1873 (Trypeta), Euaresta .....                         | 57.23 |
| bellula Snow, 1894, Euaresta .....                                   | 57.23 |
| benjamini Lima, 1938, Anastrepha .....                               | 57.7  |
| benoisti (Séguy), 1933 (Acanthiophilus), Melanotrypana .....         | 57.31 |
| beta Malloch, 1933, Trupanea .....                                   | 57.51 |
| bezzii Lima, 1934, Anastrepha .....                                  | 57.8  |
| biarcuata Hendel, 1914, Rhachiptera .....                            | 57.40 |
| bicolor Stone, 1939, Pseudodacus .....                               | 57.39 |
| bicolorata Hering, 1936, Epochrinopsis .....                         | 57.23 |
| bigutta Hering, 1941, Paroxyna .....                                 | 57.34 |
| bimaculata Hendel, 1914, Strobelia .....                             | 57.42 |
| binodosa Stone, 1942, Anastrepha .....                               | 57.8  |
| biocellata (Thomson), 1869 (Trypeta), Xanthaciura .....              | 57.55 |
| bipuncta Aczél, 1953, Chrysaciura .....                              | 57.21 |
| <i>birabeni</i> (Blanchard), 1949 (Trypanea), Tephritis .....        | 57.43 |
| biseriata authors, Tomoplagia .....                                  | 57.47 |
| biseriata (Loew), 1873 (Trypeta), Tomoplagia .....                   | 57.45 |
| biseriata Wulp, 1899, Blepharoneura .....                            | 57.18 |
| biseta Hendel, 1914, Pseudoedaspis .....                             | 57.39 |
| bisetosa (Coquillett), 1899 (Urellia), Trupanea .....                | 57.49 |

|  |       |
|--|-------|
| bistigmosa Hering, 1941, <i>Trupanea</i> .....                                 | 57.49 |
| bistriga Malloch, 1933, <i>Trupanea</i> .....                                  | 57.49 |
| bistrigata Bezzi, 1919, <i>Anastrepha</i> .....                                | 57.8  |
| bivittata (Macquart), 1843 ( <i>Urophora</i> ), <i>Anastrepha</i> .....        | 57.8  |
| blanchardi Aczél, 1954, <i>Rhagoletis</i> .....                                | 57.40 |
| Blepharoneura Loew, 1873 .....   | 57.17 |
| bonariensis (Brèthes), 1908 ( <i>Urellia</i> ), <i>Trupanea</i> .....          | 57.51 |
| bondari Lima, 1934, <i>Anastrepha</i> .....                                    | 57.8  |
| bondari Lima & Leite, 1952, <i>Hexachaeta</i> .....                            | 57.26 |
| borgmeieri Lima, 1934, <i>Anastrepha</i> .....                                 | 57.8  |
| bosqui Blanchard, 1961, <i>Anastrepha</i> .....                                | 57.7  |
| <i>Brachytes</i> Hendel, 1914 .....  | 57.26 |
| brasiliensis (Aczél), 1953 ( <i>Trupanea</i> ), <i>Paroxyna</i> .....          | 57.34 |
| brasiliensis Lima, 1933 ( <i>Acidia</i> ) .....                                | 57.58 |
| braziliensis Aczél, 1953, <i>Cecidochares</i> .....                            | 57.19 |
| braziliensis Greene, 1934, <i>Anastrepha</i> .....                             | 57.11 |
| brevinervis Malloch, 1933, <i>Xanthaciura</i> .....                            | 57.55 |
| brevior Hennig, 1940, <i>Protensina</i> .....                                  | 57.37 |
| brevipalpis Aczél, 1955, <i>Tomoplagia</i> .....                               | 57.45 |
| breviradiata (Hendel), 1914 ( <i>Acrotaenia</i> ), <i>Pseudacrotaenia</i> .... | 57.37 |
| brevitarsis Hering, 1941, <i>Trupanea</i> .....                                | 57.49 |
| bruesi (Bates), 1933 ( <i>Tephritis</i> ), <i>Neotephritis</i> .....           | 57.32 |
| bullans (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Euaresta</i> .....            | 57.23 |
| bullocki (Malloch), 1933 ( <i>Trypanea</i> ), <i>Lamproxynella</i> .....       | 57.29 |
| buscki Stone, 1942, <i>Anastrepha</i> .....                                    | 57.8  |
| californica Doane, 1899, <i>Tephritis</i> .....                                | 57.43 |
| <i>Calopteromyia</i> Bigot, 1889 .....   | 57.29 |
| <i>Camaromyia</i> Hendel, 1914 .....   | 57.23 |
| canalis Stone, 1942, <i>Anastrepha</i> .....                                   | 57.8  |
| cancellaria Fabricius, 1805 ( <i>Dictya</i> ) .....                            | 57.58 |
| cancellata (Wulp), 1900 ( <i>Tephritis</i> ), <i>Neotephritis</i> .....        | 57.32 |
| candida Hering, 1942 ( <i>Trypanea</i> ) .....                                 | 57.57 |
| capitata (Wiedemann), 1824 ( <i>Trypeta</i> ), <i>Ceratitis</i> .....          | 57.20 |
| <i>Carphotricha</i> , authors .....  | 57.32 |
| carrerae Aczél, 1955, <i>Tomoplagia</i> .....                                  | 57.45 |
| cassara (Walker), 1849 ( <i>Trypeta</i> ), <i>Paroxyna</i> .....               | 57.34 |
| catharinensis (Enderlein), 1911 ( <i>Euaresta</i> ), <i>Tetreuaresta</i> ....  | 57.44 |
| caudata Stone, 1942, <i>Anastrepha</i> .....                                   | 57.8  |
| <i>Cecidocharella</i> Hendel, 1936 .....                                       | 57.18 |
| <i>Cecidochares</i> Bezzi, 1910 .....  | 57.19 |
| <i>Celidosphenella</i> Hendel, 1914 .....                                      | 57.20 |
| <i>Ceratitis</i> Macleay, 1829 .....   | 57.20 |
| <i>Ceratitoedaspis</i> Aczél, 1953 .....                                       | 57.20 |
| <i>Ceratodacus</i> Hendel, 1914 .....  | 57.20 |
| <i>Chaetorhagoletis</i> Blanchard, 1954 .....                                  | 57.41 |
| chaetostoma (Hering), 1941 ( <i>Euribia</i> ), <i>Urophora</i> .....           | 57.54 |
| chariessa Hendel, 1914 ( <i>Trypanea</i> ) .....                               | 57.57 |
| chiclayae error, <i>Anastrepha</i> .....                                       | 57.8  |
| chiclayae Greene, 1934, <i>Anastrepha</i> .....                                | 57.8  |
| chilensis, authors, <i>Trupanea</i> .....                                      | 57.50 |
| chilensis (Macquart), 1843 ( <i>Ensina</i> ), <i>Dioxyna</i> .....             | 57.22 |
| chilensis (Macquart), 1843 ( <i>Acinia</i> ), <i>Trupanea</i> .....            | 57.49 |
| <i>Chrysaciura</i> Aczél, 1953 .....   | 57.21 |



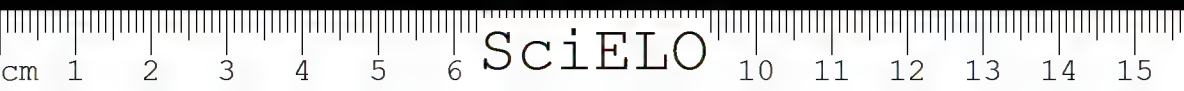


|   |       |
|---|-------|
| christophe (Bates), 1933 (Icterica), Icticodes                  | 57.29 |
| chrysura (Thomson), 1869 (Trypeta), Xanthaciura                 | 57.55 |
| cinerea Blanchard, 1852 (Acinia)                                | 57.58 |
| clathrata (Loew), 1862 (Trypeta), Paroxyna                      | 57.34 |
| coccyoc Bush, 1965, Zonosemata                                  | 57.56 |
| coelestina (Hering), 1938 (Trypanea), Trypanaresta              | 57.53 |
| coelestis (Hendel), 1914 (Acrotaenia), Pseudacrotaenia          | 57.37 |
| columbiana (Enderlein), 1911 (Euaresta), Tetreuaresta           | 57.44 |
| columbiana (Hering), 1942 (Euribia), Urophora                   | 57.54 |
| columbiana Lima, 1953, Hexachaeta                               | 57.26 |
| cometa (Malloch), 1933 (Icterica), Icticodes                    | 57.29 |
| compressa Stone, 1942, Anastrepha                               | 57.8  |
| concava Greene, 1934, Anastrepha                                | 57.8  |
| concolor (Wulp), 1899 (Spilographa), Trypeta                    | 57.53 |
| conferta (Walker), 1852 (Trypeta), Urophora                     | 57.54 |
| conjuncta Hendel, 1914, Anastrepha                              | 57.8  |
| conjuncta Hendel, 1914, Tomoplagia                              | 57.45 |
| connexa Lima, 1934, Anastrepha                                  | 57.8  |
| connexa (Macquart), 1848 (Urophora), Cecidochares               | 57.19 |
| connexionis Benjamin, 1934, Xanthaciura                         | 57.55 |
| consobrina (Loew), 1873 (Trypeta), Anastrepha                   | 57.8  |
| consobrina authors, Anastrepha                                  | 57.7  |
| conspersa (Wulp), 1900 (Ensina), Paroxyna                       | 57.34 |
| contracta Hering, 1937, Xanthaciura                             | 57.55 |
| conversa (Brèthes), 1919 (Spilographa), Rhagoletis              | 57.40 |
| convoluta Stone, 1942, Anastrepha                               | 57.9  |
| copiosa Hering, 1942, Tetreuaresta                              | 57.44 |
| cordata Aldrich, 1925, Anastrepha                               | 57.9  |
| correntina Blanchard, 1961, Anastrepha                          | 57.9  |
| costaemaculata Hering, 1940, Plaumannimyia                      | 57.35 |
| cressoni Aczél, 1955, Tomoplagia                                | 57.45 |
| costalimai Autuori, 1936, Anastrepha                            | 57.9  |
| Costalimaia Hering, 1947  | 57.19 |
| costaruckmanii Capoor, 1954, Anastrepha                         | 57.9  |
| crassipes Curran, 1934, Pyrgotoides                             | 57.40 |
| crassitarsis Hering, 1940, Trupanea                             | 57.49 |
| crebra Stone, 1942, Anastrepha                                  | 57.9  |
| crenulata (Wulp), 1900 (Euaresta), Tetreuaresta                 | 57.44 |
| cressoni Aczél, 1955, Tomoplagia                                | 57.45 |
| crockeri Curran, 1934, Paroxyna                                 | 57.34 |
| cronia (Walker), 1849 (Trypeta), Hexachaeta                     | 57.26 |
| cruzi Lima, 1934, Anastrepha                                    | 57.9  |
| Cryptodacus Hendel, 1914  | 57.21 |
| Cryptoplagia Aczél, 1951  | 57.21 |
| cryptostrepha Hendel, 1914, Anastrepha                          | 57.9  |
| Cryptoptreta Blanc & Foote, 1961                                | 57.21 |
| cuculi (Hendel), 1914 (Tomoplagia), Haywardina                  | 57.25 |
| cuculi (Kieffer & Jörgenson), 1910 (Trypeta), Strobelia         | 57.42 |
| cuculiformis Aczél, 1951, Cryptoplagia                          | 57.21 |
| culta authors, Paracantha                                       | 57.33 |
| culta (Wiedemann), 1830 (Trypeta), Paracantha (not Neotropical) | 57.32 |
| cultaris (Coquillett), 1894 (Trypeta), Paracantha               | 57.33 |

|   |       |
|---|-------|
| <i>culturis</i> , error, <i>Paracantha</i> .....                                  | 57.33 |
| <i>curitis</i> Stone, 1942, <i>Anastrepha</i> .....                               | 57.9  |
| <i>curvicauda</i> Gerstäcker, 1860, <i>Toxotrypana</i> .....                      | 57.48 |
| <i>curvinervis</i> Aczél, 1953, <i>Liloaciura</i> .....                           | 57.30 |
| <i>cutta</i> , error, <i>Paracantha</i> .....                                     | 57.32 |
| <i>cyclops</i> Hendel, 1914, <i>Trupanea</i> .....                                | 57.49 |
| <i>decetoptera</i> Phillips, 1923, <i>Trupanea</i> .....                          | 57.50 |
| <i>daciformis</i> (Bezzi), 1909 ( <i>Anastrepha</i> ), <i>Pseudodacus</i> .....   | 57.39 |
| <i>dangeloi</i> Blanchard, 1961, <i>Anastrepha</i> .....                          | 57.9  |
| <i>daphne</i> authors, <i>Trupanea</i> .....                                      | 57.51 |
| <i>daphne</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Trupanea</i> .....         | 57.50 |
| <i>debilis</i> Stone, 1942, <i>Anastrepha</i> .....                               | 57.9  |
| <i>decolorata</i> Lindner, 1928, <i>Hexachaeta</i> .....                          | 57.26 |
| <i>deflorata</i> Hering, 1937, <i>Tomoplagia</i> .....                            | 57.45 |
| <i>deleta</i> Hering, 1941, <i>Tetreuaresta</i> .....                             | 57.44 |
| <i>delicatella</i> Blanchard, 1852 ( <i>Acinia</i> ) .....                        | 57.58 |
| <i>delta</i> (Hendel), 1914 ( <i>Proceridochores</i> ), <i>Cecidochores</i> ..... | 57.19 |
| <i>dentata</i> Aczél, 1952, <i>Paracantha</i> .....                               | 57.33 |
| <i>dentata</i> Stone, 1939, <i>Lucumaphila</i> .....                              | 57.30 |
| <i>despecta</i> (Wulp), 1900 ( <i>Ensina</i> ), <i>Paroxyna</i> .....             | 57.34 |
| <i>diagramma</i> Hendel, 1914, <i>Tomoplagia</i> .....                            | 57.45 |
| <i>diagrammata</i> Hering, 1947, <i>Trupanea</i> .....                            | 57.50 |
| <i>Dictyotrypeta</i> Hendel, 1914 .....   | 57.21 |
| <i>diespasmene</i> Schiner, 1868, <i>Tephritis</i> .....                          | 57.43 |
| <i>difficilis</i> (Malloch), 1933 ( <i>Trypeta</i> ), <i>Trypanaresta</i> .....   | 57.53 |
| <i>diluta</i> (Enderlein), 1911 ( <i>Urellia</i> ), <i>Urophora</i> .....         | 57.54 |
| <i>dinia</i> (Walker), 1849 ( <i>Trypeta</i> ), <i>Hexachaeta</i> .....           | 57.26 |
| <i>Dioxyna</i> Frey, 1945 .....   | 57.21 |
| <i>discessa</i> Stone, 1942, <i>Anastrepha</i> .....                              | 57.9  |
| <i>discola</i> , error or emendation, <i>Lamproxynella</i> .....                  | 57.29 |
| <i>discolor</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Tomoplagia</i> .....          | 57.46 |
| <i>disjuncta</i> Becker, 1919, <i>Urophora</i> .....                              | 57.54 |
| <i>dissimilis</i> Stone, 1942, <i>Anastrepha</i> .....                            | 57.9  |
| <i>distans</i> Hendel, 1914, <i>Anastrepha</i> .....                              | 57.9  |
| <i>distans</i> authors, <i>Anastrepha</i> .....                                   | 57.11 |
| <i>distenta</i> Blanchard, 1961, <i>Anastrepha</i> .....                          | 57.15 |
| <i>distincta</i> Greene, 1934, <i>Anastrepha</i> .....                            | 57.9  |
| <i>distincta</i> Greene, 1934, <i>Anastrepha</i> .....                            | 57.11 |
| <i>distincta</i> (Schiner), 1868 ( <i>Icaria</i> ), <i>Eutreta</i> .....          | 57.25 |
| <i>diva</i> Giglio-Tos, 1893, <i>Blepharoneura</i> .....                          | 57.18 |
| <i>diversa</i> (Malloch), 1933 ( <i>Trypanea</i> ), <i>Tephritis</i> .....        | 57.43 |
| <i>dolores</i> Hering, 1938 ( <i>Trypanea</i> ) .....                             | 57.57 |
| <i>doryphoros</i> Stone, 1942, <i>Anastrepha</i> .....                            | 57.10 |
| <i>Dracontomyia</i> Becker, 1919 .....  | 57.22 |
| <i>dreisbachi</i> Foote, 1958, <i>Euarestoides</i> .....                          | 57.24 |
| <i>dryas</i> Stone, 1942, <i>Anastrepha</i> .....                                 | 57.10 |
| <i>duckei</i> Lima, 1934, <i>Anastrepha</i> .....                                 | 57.10 |
| <i>duplicata</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Trupanea</i> .....      | 57.50 |
| <i>durvillei</i> Macquart, 1843 ( <i>Acinia</i> ) .....                           | 57.57 |
| <i>dyscola</i> (Hendel), 1914 ( <i>Euribia</i> ), <i>Lamproxynella</i> .....      | 57.29 |
| <i>Dyseuaresta</i> Hendel, 1928 .....   | 57.22 |

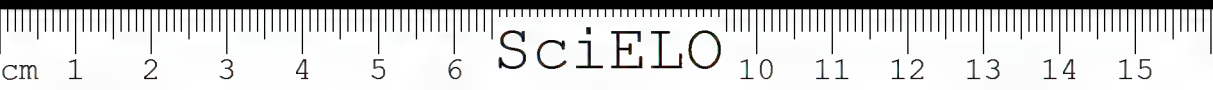
|  |              |
|--|--------------|
| edentata Stone, 1942, <i>Anastrepha</i> .....                                      | 57.10        |
| edwardsi Malloch, 1933 ( <i>Trypanea</i> ) .....                                   | 57.57        |
| elegans Blanchard, 1937, <i>Anastrepha</i> .....                                   | 57.10        |
| elegans (Blanchard), 1929 ( <i>Mesaraelia</i> ), <i>Parastenopa</i> .....          | 57.33        |
| elegans Hendel, 1936, <i>Cecidocharella</i> .....                                  | 57.19        |
| ellipta, error, <i>Tetreuaresta</i> .....  | 57.44        |
| ellipta (Hendel), 1914 ( <i>Euaresta</i> ), <i>Tetreuaresta</i> .....              | 57.44        |
| elongata Malloch, 1941, <i>Paracantha</i> .....                                    | 57.33        |
| elongata Yepez, 1953, <i>Anastrepha</i> .....                                      | 57.10        |
| enderleini Lima, 1935, <i>Hexachaeta</i> .....                                     | 57.26        |
| enigma Hering, 1941, <i>Paroxyna</i> .....   | 57.34        |
| <i>Ensina</i> , authors .....  | 57.21, 57.34 |
| <i>Epochrella</i> Hering, 1961 .....   | 57.23        |
| <i>Epochrinopsis</i> Hering, 1939 .....  | 57.23        |
| erasa Malloch, 1942, <i>Trupanea</i> .....   | 57.50        |
| erosa (Enderlein), 1911 ( <i>Aciura</i> ), <i>Xanthaciura</i> .....                | 57.55        |
| ethalea authors, <i>Anastrepha</i> .....   | 57.13        |
| ethalea (Walker), 1849 ( <i>Trypeta</i> ), <i>Anastrepha</i> .....                 | 57.10        |
| ethaleiforme Blanchard, 1961, <i>Anastrepha</i> .....                              | 57.11        |
| <i>Euaresta</i> Loew, 1873 .....   | 57.23        |
| euarestina (Hendel), 1914 ( <i>Euribia</i> ), <i>Lamproxynella</i> .....           | 57.29        |
| <i>Euarestoides</i> Benjamin, 1934 .....   | 57.24        |
| <i>Euarestopsis</i> Hering, 1937 .....   | 57.24        |
| <i>Eucecidochares</i> Bezzi & Tavares, 1916 .....                                  | 57.19        |
| <i>Eucosmoptera</i> Phillips, 1923 .....   | 57.55        |
| eugenia (Wulp), 1900 ( <i>Urellia</i> ), <i>Euarestoides</i> .....                 | 57.24        |
| eupatorii (Kieffer & Jörgenson), 1910 ( <i>Acidia</i> ), <i>Cecidochares</i> ..... | 57.19        |
| <i>Eupterocalla</i> Brèthes, 1916 .....  | 57.40        |
| <i>Euribia</i> , authors .....   | 57.53        |
| <i>Euribia</i> Meigen, 1800 .....  | 57.54        |
| Eutreta Loew, 1873 .....   | 57.24        |
| excelsa Aczél, 1949, <i>Xanthaciura</i> .....                                      | 57.55        |
| excepta Malloch, 1933, <i>Trupanea</i> .....                                       | 57.50        |
| eximia (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Hexachaeta</i> .....               | 57.26        |
| extensa Stone, 1942, <i>Anastrepha</i> .....                                       | 57.10        |
| extincta Hering, 1944, <i>Paroxyna</i> .....                                       | 57.34        |
|  |              |
| falcigera (Kieffer & Jörgenson), 1910 ( <i>Aciura</i> ), <i>Pseudeutreta</i> ..... | 57.38        |
| fallax Johnson, 1919 ( <i>Acidia</i> ) .....                                       | 57.58        |
| fallax Lima, 1954, <i>Hexachaeta</i> .....   | 57.27        |
| fasciventris (Macquart), 1851 ( <i>Tephritis</i> ), <i>Hexachaeta</i> .....        | 57.27        |
| femoralis Wulp, 1899, <i>Blepharoneura</i> .....                                   | 57.18        |
| fenestrata Lutz & Lima, 1918, <i>Anastrepha</i> .....                              | 57.10        |
| ferruginea Hendel, 1927, <i>Rhagoletis</i> .....                                   | 57.40        |
| ferruginea Hendel, 1928, <i>Strobelia</i> .....                                    | 57.42        |
| fibulata (Wulp), 1900 ( <i>Tephritis</i> ), <i>Paroxyna</i> .....                  | 57.34        |
| fiebrigi Hendel, 1914, <i>Tomoplagia</i> .....                                     | 57.46        |
| finalis (Loew), 1862 ( <i>Trypeta</i> ), <i>Neotephritis</i> .....                 | 57.32        |
| fischeri Lima, 1934, <i>Anastrepha</i> .....                                       | 57.10        |
| flavicauda Aczél, 1952, <i>Xanthaciura</i> .....                                   | 57.55        |
| flavipennis Greene, 1934, <i>Anastrepha</i> .....                                  | 57.10        |
| flavipes Aldrich, 1929, <i>Procecidochares</i> .....                               | 57.36        |

|  |       |
|--|-------|
| flavissima Hering, 1940, <i>Anastrepha</i> .....                             | 57.10 |
| flavivena Hering, 1937, <i>Trupanea</i> .....                                | 57.50 |
| flexuosa Bigot, 1857 ( <i>Urophora</i> ) .....                               | 57.58 |
| floccosa (Curran), 1928 ( <i>Tephritis</i> ), <i>Paroxyna</i> .....          | 57.35 |
| fluminensis (Lima), 1934 ( <i>Procecidochares</i> ), <i>Cecidochares</i> ... | 57.19 |
| footei Aczél, 1953, <i>Dracontomyia</i> .....                                | 57.22 |
| <i>Forellia</i> Robineau-Desvoidy, 1830 .....                                | 57.53 |
| formosa Aczél, 1955, <i>Tomoplagia</i> .....                                 | 57.46 |
| forsteri Hering, 1961, <i>Pseudacrotænia</i> .....                           | 57.37 |
| fractura Stone, 1942, <i>Anastrepha</i> .....                                | 57.10 |
| <i>fraterculus</i> authors, <i>Anastrepha</i> .....                          | 57.10 |
| fraterculus (Wiedemann), 1830 ( <i>Dacus</i> ), <i>Anastrepha</i> .....      | 57.10 |
| frauenfeldi (Schiner), 1868 ( <i>Icaria</i> ), <i>Cecidochares</i> .....     | 57.19 |
| freyae (Lindner), 1928 ( <i>Trypanea</i> ), <i>Paroxyna</i> .....            | 57.34 |
| frosti Hering, 1938, <i>Eutreta</i> .....                                    | 57.25 |
| frutalis (Weyenbergh), 1874 ( <i>Anthomyia</i> ), <i>Anastrepha</i> .....    | 57.11 |
| fucata (Fabricius), 1794 ( <i>Musca</i> ), <i>Acinia</i> .....               | 57.5  |
| <i>fucata</i> authors, <i>Acinia</i> .....                                   | 57.5  |
| fucatella (Hendel), 1914 ( <i>Euribia</i> ), <i>Lamproxynella</i> .....      | 57.29 |
| fulvicollis Wulp, 1899, <i>Blepharoneura</i> .....                           | 57.18 |
| fumipennis Lima, 1934, <i>Anastrepha</i> .....                               | 57.11 |
| funebis (Hering), 1941 ( <i>Euribia</i> ), <i>Urophora</i> .....             | 57.54 |
| furcata Lima, 1934, <i>Anastrepha</i> .....                                  | 57.11 |
| <i>furcata</i> Lima, 1937, <i>Anastrepha</i> .....                           | 57.15 |
| furcifer Hendel, 1914, <i>Blepharoneura</i> .....                            | 57.18 |
| <i>furcifera</i> (Bigot), 1884 ( <i>Mikimyia</i> ), <i>Toxotrypana</i> ..... | 57.48 |
| <i>fuscicubitalis</i> Hering, 1914, <i>Trupanea</i> .....                    | 57.52 |
| fuscoapicalis Hering, 1942, <i>Dyseuaresta</i> .....                         | 57.22 |
| fuscobasalis (Hering), 1935 ( <i>Anastrepha</i> ), <i>Stoneola</i> .....     | 57.42 |
|  |       |
| galbina Stone, 1942, <i>Anastrepha</i> .....                                 | 57.11 |
| gamma Malloch, 1933, <i>Trupanea</i> .....                                   | 57.51 |
| gentilis Hering, 1940, <i>Paracantha</i> .....                               | 57.33 |
| gephyriae (Hendel), 1914 ( <i>Euaresta</i> ), <i>Dyseuaresta</i> .....       | 57.22 |
| Gerrhoceras Hering, 1941 .....   | 57.25 |
| gigantea Stone, 1942, <i>Anastrepha</i> .....                                | 57.11 |
| gilva Wulp, 1899, <i>Baryplegma</i> .....                                    | 57.17 |
| goldbachii Blanchard, 1961, <i>Anastrepha</i> .....                          | 57.11 |
| grandis (Macquart), 1846 ( <i>Tephritis</i> ), <i>Anastrepha</i> .....       | 57.11 |
| greenei Lima, 1937, <i>Anastrepha</i> .....                                  | 57.11 |
| <i>grioti</i> Blanchard, 1961, <i>Anastrepha</i> .....                       | 57.10 |
| guatemalensis Lima, 1953, <i>Neohexachaeta</i> .....                         | 57.31 |
| guianae Stone, 1942, <i>Anastrepha</i> .....                                 | 57.12 |
| guttata Aczél, 1955, <i>Parastenopa</i> .....                                | 57.34 |
| guttata Macquart, 1846 ( <i>Acinia</i> ) .....                               | 57.58 |
| guttularis (Wulp), 1900 ( <i>Ensina</i> ), <i>Paroxyna</i> .....             | 57.35 |
|  |       |
| hamadryas Stone, 1939, <i>Lucumaphila</i> .....                              | 57.30 |
| hamata (Loew), 1873 ( <i>Trypeta</i> ), <i>Lucumaphila</i> .....             | 57.30 |
| hambletoni (Lima), 1934 ( <i>Anastrepha</i> ), <i>Lucumaphila</i> .....      | 57.30 |
| Hamouchaeta Blanchard, 1929 .....  | 57.25 |



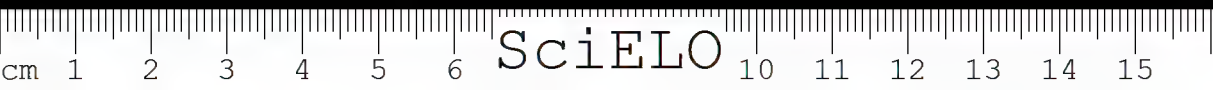


|  |       |
|--|-------|
| <i>hastata</i> Stone, 1942, <i>Anastrepha</i> .....                              | 57.12 |
| <i>naywardi</i> Aczél, 1952, <i>Paracantha</i> .....                             | 57.33 |
| <i>haywardi</i> Blanchard, 1937, <i>Anastrepha</i> .....                         | 57.12 |
| <i>Haywardina</i> Aczél, 1951 .....  | 57.25 |
| <i>heliodes</i> (Hendel), 1914 (Euribia), <i>Lamproxynella</i> .....             | 57.29 |
| <i>helota</i> Hering, 1941, <i>Trupanea</i> .....                                | 57.50 |
| <i>hendeli</i> Aczél, 1958, <i>Acinia</i> .....                                  | 57.5  |
| <i>hendeli</i> Greene, 1934, <i>Anastrepha</i> .....                             | 57.15 |
| <i>hendeli</i> Hering, 1941, <i>Trupanea</i> .....                               | 57.50 |
| <i>hendeliana</i> Lima, 1934, <i>Anastrepha</i> .....                            | 57.12 |
| <i>heringi</i> Aczél, 1955, <i>Tomoplagia</i> .....                              | 57.46 |
| <i>hestiae</i> (Hendel), 1914 ( <i>Trypanea</i> ), <i>Trypanaresta</i> .....     | 57.53 |
| <i>Hetschkomyia</i> Hendel, 1914 .....   | 57.26 |
| <i>Hexachaeta</i> Loew, 1873 .....   | 57.26 |
| <i>Hexaresta</i> Hering, 1941 .....  | 57.28 |
| <i>hirsuta</i> Bates, 1933, <i>Blepharoneura</i> .....                           | 57.18 |
| <i>homalura</i> Hendel, 1914, <i>Hexachaeta</i> .....                            | 57.27 |
| <i>Homoeothrix</i> Hering, 1944 .....  | 57.28 |
| <i>Homoeothrix</i> , error .....   | 57.28 |
| <i>humilis</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Dioxyna</i> .....             | 57.22 |
| <i>hyalipennis</i> Hennig, 1940, <i>Protensina</i> .....                         | 57.37 |
|  |       |
| <i>ianthina</i> Aczél, 1953, <i>Cecidochares</i> .....                           | 57.19 |
| <i>ica</i> Hering, 1941, <i>Acinia</i> .....                                     | 57.5  |
| <i>Icaria</i> Schiner, 1868 .....  | 57.24 |
| <i>Icterica</i> , authors .....  | 57.28 |
| <i>Ictericoles</i> Hering, 1942 .....  | 57.28 |
| <i>ilonae</i> (Aczél), 1953 ( <i>Polymorphomyia</i> ), <i>Pseudeutreta</i> ..... | 57.38 |
| <i>imitatrix</i> (Hering), 1938 ( <i>Trypanea</i> ), <i>Trypanaresta</i> .....   | 57.53 |
| <i>imox</i> Bates, 1934, <i>Acrotaenia</i> .....                                 | 57.5  |
| <i>impluviata</i> Blanchard, 1852 ( <i>Acinia</i> ) .....                        | 57.58 |
| <i>impunctata</i> Hendel, 1914, <i>Blepharoneura</i> .....                       | 57.18 |
| <i>inca</i> Stone, 1942, <i>Anastrepha</i> .....                                 | 57.12 |
| <i>incisa</i> (Wulp), 1899 ( <i>Acrotaenia</i> ), <i>Pseudacrotaenia</i> .....   | 57.37 |
| <i>incompleta</i> (Williston), 1896 ( <i>Trypeta</i> ), <i>Tomoplagia</i> .....  | 57.46 |
| <i>infuscata</i> Shaw, 1962, <i>Anastrepha</i> .....                             | 57.12 |
| <i>insecta</i> , authors, <i>Xanthaciura</i> .....                               | 57.55 |
| <i>insecta</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Xanthaciura</i> .....         | 57.55 |
| <i>Instrypeta</i> Herrera, Rangel & Barreda, 1900 .....                          | 57.6  |
| <i>insulae</i> Stone, 1942, <i>Anastrepha</i> .....                              | 57.12 |
| <i>integra</i> , authors, <i>Anastrepha</i> .....                                | 57.12 |
| <i>integra</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Anastrepha</i> .....          | 57.12 |
| <i>intensa</i> Blanchard, 1961, <i>Anastrepha</i> .....                          | 57.11 |
| <i>intermissa</i> Blanchard, 1961, <i>Anastrepha</i> .....                       | 57.11 |
| <i>intricata</i> (Wulp), 1900 ( <i>Tephritis</i> ), <i>Paroxyna</i> .....        | 57.35 |
| <i>io</i> Giglio-Tos, 1893, <i>Blepharoneura</i> .....                           | 57.18 |
| <i>irradiata</i> Blanchard, 1961, <i>Anastrepha</i> .....                        | 57.12 |
| <i>irretita</i> Stone, 1942, <i>Anastrepha</i> .....                             | 57.12 |
| <i>Ischyropteron</i> Bigot, 1889 .....   | 57.29 |
| <i>Ischyropteron</i> , emendation .....  | 57.29 |
| <i>itatiaiensis</i> Lima & Leite, 1952, <i>Hexachaeta</i> .....                  | 57.26 |

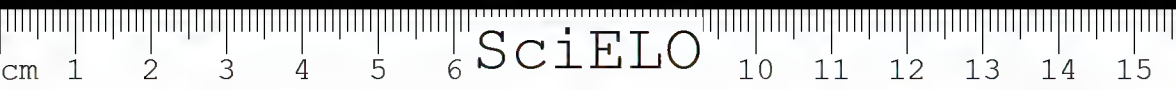


|  |       |
|--|-------|
| jonasi (Lutz & Lima), 1918 (Plagiotoma), Tomoplagia .....      | 57.46 |
| juanita Hering, 1941, Hexaresta .....                          | 57.28 |
| juglandis Cresson, 1920, Rhagoletis .....                      | 57.40 |
| <i>Kartabia</i> Curran, 1934 .....                             | 57.33 |
| kelloggi Aczél, 1955, Tomoplagia .....                         | 57.46 |
| kuhlmanni Lima, 1934, Anastrepha .....                         | 57.12 |
| <i>lambda</i> Hendel, 1914, Anastrepha .....                   | 57.12 |
| Lamproxyna Hendel, 1914 .....                                  | 57.29 |
| Lamproxynella Hering, 1941 .....                               | 57.29 |
| lanceola Stone, 1942, Anastrepha .....                         | 57.12 |
| lata Hering, 1941, Tetreuresta .....                           | 57.44 |
| lathana Stone, 1942, Anastrepha .....                          | 57.12 |
| latifasciata Hering, 1935, Anastrepha .....                    | 57.11 |
| latifrons Hendel, 1914, Neorhagoletis .....                    | 57.31 |
| latifrons (Wulp), 1899 (Spilographa), Rhagoletoides .....      | 57.41 |
| latigenis Hendel, 1914, Cecidochares .....                     | 57.19 |
| latipennis Townsend, 1893 (Euaresta) .....                     | 57.57 |
| latipennis (Wiedemann), 1830 (Trypeta), Acrotaenia .....       | 57.6  |
| leptozona Hendel, 1914, Anastrepha .....                       | 57.12 |
| leucotricha (Schiner), 1868 (Oedaspis), Cecidochares .....     | 57.19 |
| lichtensteinii (Wiedemann), 1830 (Trypeta), Ictericondes ..... | 57.29 |
| ligata Lima, 1934, Anastrepha .....                            | 57.13 |
| ligularis Bates, 1933, Pseudeutreta .....                      | 57.38 |
| Lilloaciura Aczél, 1953 .....                                  | 57.30 |
| lilloi Aczél, 1953, Trupanea .....                             | 57.50 |
| limae Stone, 1942, Anastrepha .....                            | 57.12 |
| limbata Bigot, 1859, Rhachiptera .....                         | 57.40 |
| lindigi (Hendel), 1914 (Euribia), Homocothrix .....            | 57.28 |
| littoralis Blanchard, 1959, Toxotrypana .....                  | 57.48 |
| loewi Stone, 1942, Anastrepha .....                            | 57.12 |
| longicauda Hendel, 1914, Blepharoneura .....                   | 57.13 |
| longicauda (Lima), 1934 (Anastrepha), Lucumaphila .....        | 57.30 |
| longiceps Hendel, 1914, Protensina .....                       | 57.37 |
| longicornis Hendel, 1914, Ceratodacus .....                    | 57.20 |
| longimacula Greene, 1934, Anastrepha .....                     | 57.16 |
| luculenta (Wulp), 1900 (Ensina), Paroxyna .....                | 57.35 |
| Lucumaphila Stone, 1939 .....                                  | 57.30 |
| ludens (Loew), 1873 (Trypeta), Anastrepha .....                | 57.12 |
| luederwaldti (Lima), 1934 (Anastrepha), Lucumaphila .....      | 57.30 |
| lunata (Hendel), 1914 (Icteric), Ictericondes .....            | 57.28 |
| lunulata (Macquart), 1851 (Platystoma), Eutreta .....          | 57.25 |
| lutea Giglio-Tos, 1893, Molynocoelia .....                     | 57.31 |
| lutea Stone, 1942, Anastrepha .....                            | 57.13 |
| lutescens (Walker), 1857 (Trypeta), Hexachaeta .....           | 57.27 |
| lutulenta Hendel, 1914, Strobilia .....                        | 57.42 |
| lutzi Lima, 1934, Anastrepha .....                             | 57.13 |
| lycopersella Smyth, 1960, Rhagoletis .....                     | 57.40 |
| macquartii (Loew), 1873 (Trypeta), Rhagoletis .....            | 57.40 |
| macra Stone, 1942, Anastrepha .....                            | 57.13 |

|  |       |
|--|-------|
| <i>macrurus</i> (Hendel), 1914 ( <i>Anastrepha</i> ), <i>Pseudodacus</i> .....   | 57.39 |
| <i>maculata</i> Hendel, 1914, <i>Celidosphenella</i> .....                       | 57.20 |
| <i>maculata</i> Lima, 1934, <i>Pseudophorellia</i> .....                         | 57.39 |
| <i>maculipennis</i> (Cole), 1923 ( <i>Baryplegma</i> ), <i>Acinia</i> .....      | 57.5  |
| <i>maculipennis</i> Hendel, 1914, <i>Hetschkomyia</i> .....                      | 57.26 |
| <i>magnipennis</i> Hendel, 1914, <i>Neoacanthoneura</i> .....                    | 57.31 |
| <i>magnipennis</i> Hendel, 1914, <i>Polionota</i> .....                          | 57.36 |
| <i>major</i> (Macquart), 1847 ( <i>Tephritis</i> ), <i>Hexachaeta</i> .....      | 57.27 |
| <i>major</i> Malloch, 1934, <i>Xanthaciura</i> .....                             | 57.55 |
| <i>majuscula</i> Bezzi & Tavares, 1916, <i>Trupanea</i> .....                    | 57.51 |
| <i>mallochi</i> Aczél, 1958, <i>Acinia</i> .....                                 | 57.5  |
| <i>mallochi</i> Aczél, 1949, <i>Xanthaciura</i> .....                            | 57.55 |
| <i>mallochi</i> Hering, 1940, <i>Trupanea</i> .....                              | 57.50 |
| <i>mamarae</i> (Hendel), 1914 ( <i>Tephritis</i> ), <i>Urophora</i> .....        | 57.54 |
| <i>manhioti</i> error, <i>Anastrepha</i> .....                                   | 57.13 |
| <i>manihoti</i> Lima, 1934, <i>Anastrepha</i> .....                              | 57.13 |
| <i>marcetiae</i> Bezzi & Tavares, 1916, <i>Parastenopa</i> .....                 | 57.34 |
| <i>margaritata</i> Hendel, 1914, <i>Eutreta</i> .....                            | 57.25 |
| <i>marmorata</i> Blanchard, 1852 ( <i>Acinia</i> ) .....                         | 57.58 |
| <i>mburucuyae</i> Blanchard, 1961, <i>Anastrepha</i> .....                       | 57.13 |
| <i>mediana</i> (Wulp), 1900 ( <i>Ensina</i> ), <i>Paroxyna</i> .....             | 57.34 |
| <i>melanogaster</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Dyseuaresta</i> .....    | 57.23 |
| <i>Melanotrypana</i> Hering, 1944 .....  | 57.31 |
| <i>meleagris</i> (Schiner), 1868 ( <i>Tephritis</i> ), <i>Euaresta</i> .....     | 57.23 |
| <i>mellea</i> (Walker), 1837 ( <i>Tephritis</i> ), <i>Anastrepha</i> .....       | 57.11 |
| <i>mendezana</i> Aczél, 1953, <i>Pseudoedaspis</i> .....                         | 57.39 |
| <i>meridiana</i> Becker, 1919 ( <i>Euaresta</i> ) .....                          | 57.57 |
| <i>meridionalis</i> Aczél, 1952, <i>Euaresta</i> .....                           | 57.24 |
| <i>Mesaraelia</i> Blanchard, 1929 .....  | 57.33 |
| <i>metallica</i> (Schiner), 1868 ( <i>Spilographa</i> ), <i>Rhagoletis</i> ..... | 57.41 |
| <i>meteorica</i> (Thomson), 1869 ( <i>Trypeta</i> ), <i>Trupanea</i> .....       | 57.50 |
| <i>metoeca</i> Hendel, 1914, <i>Trupanea</i> .....                               | 57.50 |
| <i>mevarena</i> (Walker), 1849 ( <i>Trypeta</i> ), <i>Trupanea</i> .....         | 57.50 |
| <i>mexicana</i> (Aczél), 1953 ( <i>Tephrella</i> ), <i>Aciurina</i> .....        | 57.5  |
| <i>mexicana</i> Malloch, 1941, <i>Paracantha</i> .....                           | 57.33 |
| <i>mexicana</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Dyseuaresta</i> .....   | 57.22 |
| <i>mexicanus</i> Aczél, 1954, <i>Tomoplagiodes</i> .....                         | 57.48 |
| <i>Mikimyia</i> Bigot, 1884 .....  | 57.48 |
| <i>minattai</i> Aczél, 1955, <i>Tomoplagia</i> .....                             | 57.46 |
| <i>minensis</i> Lima, 1937, <i>Anastrepha</i> .....                              | 57.10 |
| <i>minor</i> Lima, 1934, <i>Anastrepha</i> .....                                 | 57.15 |
| <i>minuta</i> Bush, 1965, <i>Zonosemata</i> .....                                | 57.56 |
| <i>minuta</i> Hering, 1938, <i>Tomoplagia</i> .....                              | 57.46 |
| <i>minuta</i> (Snow), 1894 ( <i>Oedaspis</i> ), <i>Procecidochares</i> .....     | 57.36 |
| <i>minuta</i> Stone, 1942, <i>Anastrepha</i> .....                               | 57.13 |
| <i>mirabilis</i> Giglio-Tos, 1893, <i>Ostracocoelia</i> .....                    | 57.32 |
| <i>miseta</i> (Hering), 1938 ( <i>Trypanea</i> ), <i>Trypanaresta</i> .....      | 57.53 |
| <i>m-nigrum</i> Hendel, 1914 ( <i>Euribia</i> ) .....                            | 57.57 |
| <i>modesta</i> Blanchard, 1852 ( <i>Acinia</i> ) .....                           | 57.58 |
| <i>Molynocoelia</i> Giglio-Tos, 1893 .....                                       | 57.31 |
| <i>mombinpraeoptans</i> Seín, 1933, <i>Anastrepha</i> .....                      | 57.13 |
| <i>monostigma</i> Hendel, 1914, <i>Hexachaeta</i> .....                          | 57.27 |

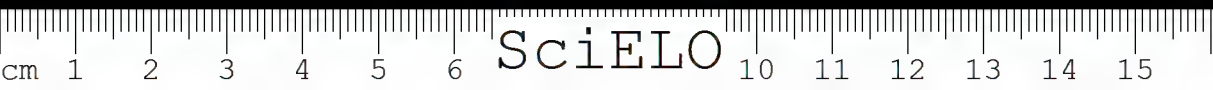


|   |       |
|---|-------|
| <i>monostigma</i> Hendel, 1914, <i>Tomoplagia</i> .....                           | 57.46 |
| <i>montana</i> Aczél, 1955, <i>Parastenopa</i> .....                              | 57.34 |
| <i>montei</i> Lima, 1934, <i>Anastrepha</i> .....                                 | 57.13 |
| <i>mora</i> (Hering), 1941 ( <i>Euribia</i> ), <i>Urophora</i> .....              | 57.54 |
| <i>mucida</i> (Giglio-Tos), 1893 ( <i>Acrotoxa</i> ), <i>Polionota</i> .....      | 57.36 |
| <i>mucronata</i> Stone, 1942, <i>Anastrepha</i> .....                             | 57.13 |
| <i>multipuncta</i> Malloch, 1941, <i>Paracantha</i> .....                         | 57.33 |
| <i>multisetosa</i> Hering, 1936, <i>Trupanea</i> .....                            | 57.50 |
| <i>munda</i> Schiner, 1868, <i>Anastrepha</i> .....                               | 57.13 |
| <i>mundellii</i> (Lima), 1936 ( <i>Tephritis</i> ), <i>Neotephritis</i> .....     | 57.32 |
| <i>myrtis</i> (Hendel), 1914 ( <i>Euaresta</i> ), <i>Tetreuaresta</i> .....       | 57.44 |
| <i>Neocanthoneura</i> Hendel, 1914 .....  | 57.31 |
| <i>neodaphne</i> Malloch, 1933, <i>Trupanea</i> .....                             | 57.51 |
| <i>Neohexachaeta</i> Lima, 1953 .....   | 57.31 |
| <i>Neorhabdochaeta</i> Malloch, 1941 .....  | 57.31 |
| <i>Neorhagoletis</i> Hendel, 1914 .....   | 57.31 |
| <i>Neotephritis</i> Hendel, 1935 .....  | 57.31 |
| <i>nigerrima</i> authors, <i>Cecidochares</i> .....                               | 57.20 |
| <i>nigerrima</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Cecidochares</i> .....       | 57.19 |
| <i>nigra</i> Blanchard, 1959, <i>Toxotrypana</i> .....                            | 57.48 |
| <i>nigricornis</i> (Coquillett), 1899 ( <i>Urellia</i> ), <i>Trupanea</i> .....   | 57.51 |
| <i>nigricornuta</i> Hering, 1942, <i>Trupanea</i> .....                           | 57.51 |
| <i>nigripalpis</i> Hendel, 1914, <i>Anastrepha</i> .....                          | 57.13 |
| <i>nigripes</i> Hering, 1938, <i>Hexachaeta</i> .....                             | 57.27 |
| <i>nigripilosa</i> Hering, 1935, <i>Blepharoneura</i> .....                       | 57.18 |
| <i>nigriseta</i> Malloch, 1933, <i>Trupanea</i> .....                             | 57.51 |
| <i>nigrocaudatum</i> Bigot, 1889, <i>Ischyropteron</i> .....                      | 57.29 |
| <i>nitidula</i> Hendel, 1914, <i>Lamproxyna</i> .....                             | 57.29 |
| <i>nobilis</i> (Aczéi), 1953 ( <i>Polymorphomyia</i> ), <i>Pseudeutreta</i> ..... | 57.38 |
| <i>nova</i> (Schiner), 1868 ( <i>Spilographa</i> ), <i>Rhagoletis</i> .....       | 57.41 |
| <i>novarae</i> (Schiner), 1868 ( <i>Tephritis</i> ), <i>Trupanea</i> .....        | 57.51 |
| <i>nubilata</i> Hering, 1936, <i>Trupanea</i> .....                               | 57.51 |
| <i>nudipes</i> Hering, 1938, <i>Trupanea</i> .....                                | 57.51 |
| <i>nymphula</i> Blanchard, 1852 ( <i>Acinia</i> ) .....                           | 57.58 |
| <i>obfuscata</i> (Wulp), 1899 ( <i>Spilographa</i> ), <i>Rhagoletoides</i> .....  | 57.41 |
| <i>obliqua</i> , authors, <i>Anastrepha</i> .....                                 | 57.9  |
| <i>obliqua</i> , authors, <i>Tomoplagia</i> .....                                 | 57.46 |
| <i>obliqua</i> (Bigot), 1857 ( <i>Tephritis</i> ), <i>Tomoplagia</i> .....        | 57.46 |
| <i>obliqua</i> (Macquart), 1835 ( <i>Tephritis</i> ), <i>Anastrepha</i> .....     | 57.14 |
| <i>obliqua</i> (Say), 1830 ( <i>Trypeta</i> ), <i>Tomoplagia</i> .....            | 57.46 |
| <i>obliquus</i> Hendel, 1914, <i>Cryptodacus</i> .....                            | 57.21 |
| <i>oblita</i> Lima, 1954, <i>Hexachaeta</i> .....                                 | 57.27 |
| <i>obliteratella</i> Blanchard, 1938, <i>Anastrepha</i> .....                     | 57.15 |
| <i>obscura</i> Aczél, 1958, <i>Acinia</i> .....                                   | 57.5  |
| <i>obscura</i> (Aldrich), 1925 ( <i>Anastrepha</i> ), <i>Lucumaphila</i> .....    | 57.30 |
| <i>obscura</i> Hendel, 1914, <i>Hexachaeta</i> .....                              | 57.27 |
| <i>obscurella</i> Blanchard, 1852 ( <i>Ensina</i> ) .....                         | 57.57 |
| <i>obscuriventris</i> (Loew), 1873 ( <i>Trypeta</i> ) <i>Tetreuaresta</i> .....   | 57.44 |
| <i>obsoleta</i> Hendel, 1914, <i>Trupanea</i> .....                               | 57.51 |
| <i>obsoleta</i> (Wulp), 1900 ( <i>Tephritis</i> ), <i>Paroxyna</i> .....          | 57.35 |

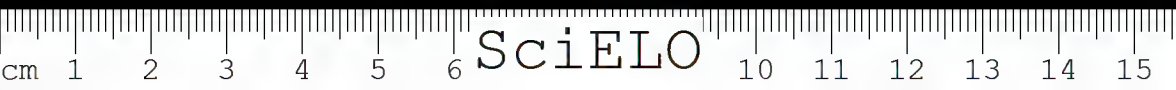




|  |       |
|--|-------|
| <i>ochraspis</i> authors, Rhagoletis .....                                       | 57.40 |
| <i>ochraspis</i> (Wiedemann), 1830 (Ortalis), Rhagoletis .....                   | 57.41 |
| <i>ochresia</i> (Walker), 1849 (Trypeta), Anastrepha .....                       | 57.14 |
| <i>oculata</i> Hendel, 1914, Hexachaeta .....                                    | 57.27 |
| <i>Oedaspis</i> , authors .....  | 57.36 |
| <i>Oedicarena</i> Loew, 1873 .....   | 57.32 |
| <i>ogloblini</i> Blanchard, 1929, Hamouchaeta .....                              | 57.25 |
| <i>omphale</i> Hering, 1936, Trupanea .....                                      | 57.51 |
| <i>omphrale</i> , error, Trupanea .....  | 57.51 |
| <i>opazoi</i> (Brèthes), 1916 (Eupterocalla), Rhachiptera .....                  | 57.40 |
| <i>ophelia</i> Hering, 1944, Paroxyna .....                                      | 57.35 |
| <i>oreiplana</i> (Kieffer & Jörgenson), 1910 (Trypeta), Pseudoe-<br>daspis ..... | 57.39 |
| <i>orfilai</i> (Aczél), 1953 (Polymorphomyia), Pseudeutreta .....                | 57.38 |
| <i>ornata</i> Aldrich, 1925, Anastrepha .....                                    | 57.14 |
| <i>ornatissima</i> Hering, 1935, Trupanea .....                                  | 57.51 |
| <i>Ostracocoelia</i> Giglio-Tos, 1893 .....                                      | 57.32 |
| <i>otopappi</i> Doane, 1899, Acrotaenia .....                                    | 57.6  |
| <i>ovalipalpis</i> Aczél, 1955, Tomoplagia .....                                 | 57.46 |
| <i>palae</i> Stone, 1942, Anastrepha .....                                       | 57.14 |
| <i>pallens</i> (Coquillett), 1904 (Anastrepha), Pseudodacus .....                | 57.39 |
| <i>pallens</i> Hering, 1938, Plaumannimyia .....                                 | 57.35 |
| <i>pallida</i> (Cole), 1923 (Eurosta), Cryptotreta .....                         | 57.21 |
| <i>pallidipennis</i> Greene, 1934, Anastrepha .....                              | 57.14 |
| <i>palpalis</i> Aczél, 1953, Ceratitoedaspis .....                               | 57.20 |
| <i>panamensis</i> Greene, 1934, Anastrepha .....                                 | 57.14 |
| <i>Paracantha</i> Coquillett, 1899 .....   | 57.32 |
| <i>paradaphne</i> Hering, 1953, Trupanea .....                                   | 57.51 |
| <i>paradoxa</i> Hering, 1941, Gerrhoceras .....                                  | 57.25 |
| <i>paragoga</i> Hering, 1936, Trupanea .....                                     | 57.51 |
| <i>paragranum</i> Hering, 1942, Pseudeutreta .....                               | 57.38 |
| <i>parallela</i> Hendel, 1914, Strobelia .....                                   | 57.42 |
| <i>parallela</i> (Wiedemann), 1830 (Dacus), Anastrepha .....                     | 57.14 |
| <i>parallela</i> authors, Anastrepha .....                                       | 57.10 |
| <i>parallelus</i> (Wiedemann), 1830 (Dacus), Lucumaphila .....                   | 57.31 |
| <i>paraplesia</i> Hendel, 1914, Trupanea .....                                   | 57.51 |
| <i>parasparsa</i> Blanchard, 1965, Eutreta .....                                 | 57.25 |
| <i>Parastenopa</i> Hendel, 1914 .....  | 57.33 |
| <i>parishi</i> Stone, 1942, Anastrepha .....                                     | 57.14 |
| <i>Paroxyna</i> Hendel, 1927 .....   | 57.34 |
| <i>parva</i> Hendel, 1914, Blepharoneura .....                                   | 57.18 |
| <i>parva</i> Lima, 1954, Hexachaeta .....  | 57.27 |
| <i>passiflorae</i> Greene, 1934, Anastrepha .....                                | 57.14 |
| <i>pastranai</i> Aczél, 1954, Rhagoletotrypeta .....                             | 57.41 |
| <i>pastranai</i> Blanchard, 1961, Anastrepha .....                               | 57.14 |
| <i>patagiata</i> Wulp, 1899, Eutreta .....                                       | 57.25 |
| <i>patagonica</i> authors, Trupanea .....  | 57.52 |
| <i>patagonica</i> (Brèthes), 1908 (Urellia), Trupanea .....                      | 57.51 |
| <i>paupera</i> Hering, 1937, Euarestopsis .....                                  | 57.24 |
| <i>paupercula</i> Hering, 1940, Trupanea .....                                   | 57.52 |
| <i>penicillata</i> Hendel, 1914, Tomoplagia .....                                | 57.46 |
| <i>pentheres</i> Hendel, 1914 (Trypanea) .....                                   | 57.57 |



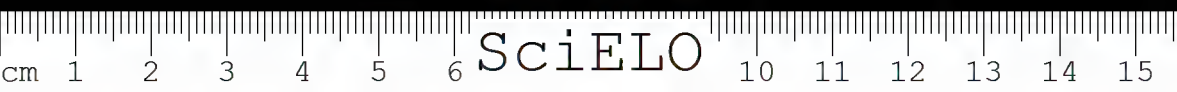
|  |       |
|--|-------|
| percnoptera Hendel, 1914, Rhachiptera .....  | 57.40 |
| <i>Percnoptera</i> Philippi, 1873 .....  | 57.40 |
| perdita Stone, 1942, <i>Anastrepha</i> .....                                       | 57.14 |
| <i>peregrina</i> authors, <i>Dioxyna</i> .....                                     | 57.22 |
| <i>peregrina</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Dioxyna</i> .....             | 57.22 |
| pertinax Bates, 1934, <i>Acrotaenia</i> .....                                      | 57.6  |
| pertusa Bates, 1934, <i>Pseudacrotaenia</i> .....                                  | 57.37 |
| peruana Aczél, 1958, <i>Acinia</i> .....   | 57.5  |
| <i>peruana</i> , error, <i>Anastrepha</i> .....                                    | 57.11 |
| peruviana Blanchard, 1961, <i>Anastrepha</i> .....                                 | 57.11 |
| peruviana Malloch, 1942, <i>Trupanea</i> .....                                     | 57.52 |
| <i>peruviana</i> Townsend, 1913, <i>Anastrepha</i> .....                           | 57.11 |
| phaedra Hendel, 1914, <i>Tomoplagia</i> .....                                      | 57.46 |
| phaeoptera Lima, 1937, <i>Anastrepha</i> .....                                     | 57.14 |
| <i>Phasmatocephala</i> Hering, 1937 .....  | 57.24 |
| philodema (Hendel), 1914 ( <i>Camaromyia</i> ), <i>Euaresta</i> .....              | 57.24 |
| Phobema Aldrich, 1925 .....  | 57.35 |
| phoenicura (Loew), 1873 ( <i>Trypeta</i> ), <i>Xanthaciura</i> .....               | 57.55 |
| <i>Phorellia</i> , emendation .....  | 57.53 |
| phrycta Hendel, 1914 ( <i>Trypanea</i> ) .....                                     | 57.57 |
| <i>phrycta</i> , error, ( <i>Thrypanea</i> ) .....                                 | 57.57 |
| phthonera (Hendel), 1914 ( <i>Euaresta</i> ) <i>Tetreuaresta</i> .....             | 57.44 |
| picciola (Bigot), 1857 ( <i>Acinia</i> ), <i>Dioxyna</i> .....                     | 57.22 |
| picciola Blanchard, 1959, <i>Toxotrypana</i> .....                                 | 57.48 |
| pickeli Lima, 1934, <i>Anastrepha</i> .....  | 57.14 |
| picturata (Snow), 1894 ( <i>Tephritis</i> ), <i>Acinia</i> .....                   | 57.5  |
| pilosula Wulp, 1899, <i>Polymorphomyia</i> .....                                   | 57.36 |
| plagiata Blanchard, 1852, ( <i>Acinia</i> ) .....                                  | 57.58 |
| <i>plagiata</i> (Thomson), 1869 ( <i>Trypeta</i> ), <i>Trupanea</i> .....          | 57.52 |
| <i>Plagiotoma</i> Loew, 1873 .....   | 57.45 |
| planicapitis (Hering), 1941 ( <i>Paroxyna</i> ), <i>Dioxyna</i> .....              | 57.22 |
| platensis (Brèthes), 1908 ( <i>Urellia</i> ), <i>Trupanea</i> .....                | 57.52 |
| platypteryx Hering, 1940, <i>Tetreuaresta</i> .....                                | 57.44 |
| plaumanni Hering, 1938, <i>Acrotaenia</i> .....                                    | 57.6  |
| plaumanni Hering, 1953, <i>Tetreuaresta</i> .....                                  | 57.44 |
| plaumanni Hering, 1940, <i>Trupanea</i> .....                                      | 57.52 |
| Plaumannimyia Hering, 1938 .....   | 57.35 |
| <i>plesia</i> (Curran), 1928 ( <i>Euaresta</i> ), <i>Dyseuaresta</i> .....         | 57.23 |
| pleuralis Hendel, 1914, <i>Tomoplagia</i> .....                                    | 57.47 |
| pleuritica Hendel, 1914, <i>Procecidochares</i> .....                              | 57.37 |
| poecila (Schiner), 1868 ( <i>Sphenella</i> ), <i>Celidosphenella</i> .....         | 57.20 |
| <i>poecilogastra</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Blepharoneura</i> .....   | 57.18 |
| <i>poecilosoma</i> (Schiner), 1868 ( <i>Oxyphora</i> ), <i>Blepharoneura</i> ..... | 57.18 |
| Polionota Wulp, 1899 .....   | 57.36 |
| polyclona Loew, 1873 ( <i>Trypeta</i> ) .....                                      | 57.57 |
| <i>Polymorphomyia</i> Snow, 1894 .....   | 57.36 |
| <i>Polygonota</i> , error or emendation .....                                      | 57.36 |
| pomonella (Walsh), 1867 ( <i>Trypeta</i> ), <i>Rhagoletis</i> .....                | 57.41 |
| porteri Séguy, 1933 ( <i>Trypanea</i> ) .....                                      | 57.57 |
| <i>Procecidochares</i> Hendel, 1914 .....  | 57.36 |
| procurvata (Blanchard), 1961 ( <i>Anastrepha</i> ), <i>Lucumaphila</i> ...         | 57.30 |
| propinqua Hering, 1941, <i>Trupanea</i> .....                                      | 57.52 |
| propleuralis Aczél, 1955, <i>Tomoplagia</i> .....                                  | 57.46 |
| proseni Blanchard, 1959, <i>Toxotrypana</i> .....                                  | 57.48 |



|  |       |
|--|-------|
| Protensina Hendel, 1914 .....  | 57.37 |
| psalida Hendel, 1914, Rhagoletis .....                               | 57.41 |
| Pseudacrotaenia Hendel, 1914 .....                                   | 57.37 |
| Pseudeutreta Hendel, 1914 .....                                      | 57.38 |
| Pseudodacus Hendel, 1914 .....                                       | 57.38 |
| pseudodaphne Hering, 1942, Trupanea .....                            | 57.52 |
| Pseudoedaspis Hendel, 1914 .....                                     | 57.39 |
| pseudofraterculus Capoor, 1955, Anastrepha .....                     | 57.14 |
| pseudoparallela (Loew), 1873 (Trypeta), Anastrepha .....             | 57.14 |
| pseudopenicillata Aczél, 1955, Tomoplagia .....                      | 57.47 |
| Pseudophorellia Lima, 1934 .....                                     | 57.39 |
| pseudopicciola Blanchard, 1959, Tomoplagia .....                     | 57.48 |
| Pseudopolionota Lima, 1935 .....                                     | 57.39 |
| pseudopunctata Blanchard, 1961, Anastrepha .....                     | 57.15 |
| pseudovespillo (Hendel), 1914 (Acrotaenia), Pseudacrotaenia .....    | 57.37 |
| pubescens (Kieffer & Jörgenson), 1910 (Tephritis), Trupanea .....    | 57.52 |
| pulchella (Wulp), 1899 (Hexachaeta), Blepharoneura .....             | 57.18 |
| pulchra Stone, 1942, Anastrepha .....                                | 57.15 |
| punctata Aczél, 1955, Tomoplagia .....                               | 57.47 |
| punctata Hendel, 1914, Anastrepha .....                              | 57.15 |
| punctipennata Hering, 1941, Tetreuaresta .....                       | 57.44 |
| punctipennis Hering, 1942, Tetreuaresta (error) .....                | 57.44 |
| pura (Curran), 1931 (Plagiotoma), Tomoplagia .....                   | 57.47 |
| putata Hering, 1940, Trupanea .....                                  | 57.52 |
| Pyrgotoides Curran, 1934 .....                                       | 57.40 |
| quadrata (Malloch), 1933 (Trypanea), Neotephritis .....              | 57.32 |
| quadrigutta (Walker), 1852 (Trypeta), Pseudeutreta .....             | 57.38 |
| quadriseriata Hendel, 1914, Tomoplagia .....                         | 57.47 |
| quadrisseta, error, Xanthaciura .....                                | 57.56 |
| quadrissetosa (Hendel), 1914 (Tetraciura), Xanthaciura .....         | 57.55 |
| quadristriata Wulp, 1899, Blepharoneura .....                        | 57.18 |
| quadrivittata Lima, 1934, Tomoplagia .....                           | 57.47 |
| quararibae Lima, 1937, Anastrepha .....                              | 57.15 |
| quinquefasciata (Becker), 1919 (Oedaspis), Cecidochares ....         | 57.20 |
| quinquefasciata (Hendel), 1914 (Procecidochares), Cecidochares ..... | 57.20 |
| quinquefasciata (Walker), 1837 (Tephritis), Hexachaeta ...           | 57.28 |
| quinquemaculata Macquart, 1843 (Urophora) .....                      | 57.58 |
| radians Lima, 1935, Pseudopolionota .....                            | 57.39 |
| radians Wulp, 1899, Polionota .....                                  | 57.36 |
| radiosa Hering, 1939, Acrotaeniakantha .....                         | 57.6  |
| ramosa Stone, 1942, Anastrepha .....                                 | 57.15 |
| reducta Hendel, 1914, Trupanea .....                                 | 57.52 |
| regina Giglio-Tos, 1893, Blepharoneura .....                         | 57.18 |
| reimoseri Hendel, 1914, Tomoplagia .....                             | 57.47 |
| repanda Blanchard, 1961, Anastrepha .....                            | 57.15 |
| reticulata Aczél, 1958, Acinia .....                                 | 57.5  |
| reticulata (Hendel), 1914 (Trypanea), Plaumannimyia .....            | 57.35 |
| retracta Blanchard, 1961, Anastrepha .....                           | 57.11 |

|   |       |
|---|-------|
| <i>Rhachiptera</i> Bigot, 1859 .....  | 57.40 |
| <i>Rhagoletis</i> Loew, 1862 .....  | 57.40 |
| <i>Rhagoletoides</i> Foote, 1960 .....  | 57.41 |
| <i>Rhagoletotrypeta</i> Aczél, 1950 .....   | 57.41 |
| <i>rheediae</i> Stone, 1942, <i>Anastrepha</i> .....                                | 57.15 |
| <i>rhinophora</i> Hering, 1937, <i>Eutreta</i> .....                                | 57.25 |
| <i>Rhithrum</i> Hendel, 1914 .....  | 57.42 |
| <i>rhytida</i> Hendel, 1914, <i>Rhagoletis</i> .....                                | 57.41 |
| <i>ricavelata</i> (Hendel), 1914 ( <i>Acrotaenia</i> ), <i>Pseudacrotaenia</i> .... | 57.37 |
| <i>rivellioides</i> Hering, 1961, <i>Epochrinopsis</i> .....                        | 57.23 |
| <i>riveti</i> Becker, 1919, <i>Dracontomyia</i> .....                               | 57.22 |
| <i>rivulatum</i> Hendel, 1914, <i>Rhithrum</i> .....                                | 57.42 |
| <i>robusta</i> Greene, 1934, <i>Anastrepha</i> .....                                | 57.15 |
| <i>rosilloi</i> Blanchard, 1961, <i>Anastrepha</i> .....                            | 57.15 |
| <i>rubiginosa</i> Rondani, 1868, <i>Strobelia</i> .....                             | 57.42 |
| <i>rudolphi</i> (Lutz & Lima), 1918 ( <i>Plagiotoma</i> ), <i>Tomoplagia</i> ....   | 57.47 |
| <i>rufa</i> (Macquart), 1843 ( <i>Acinia</i> ), <i>Euaresta</i> .....               | 57.23 |
| <i>rufata</i> (Wulp), 1899 ( <i>Spilographa</i> ), <i>Trypeta</i> .....             | 57.53 |
| <i>rufescens</i> Bezzi, 1913, <i>Cecidochares</i> .....                             | 57.20 |
| <i>ruficallosa</i> Hering, 1937, <i>Paracantha</i> .....                            | 57.33 |
| <i>rufula</i> Hering, 1942, <i>Tetreuaresta</i> .....                               | 57.44 |
| <i>rufula</i> (Wulp), 1900 ( <i>Euaresta</i> ), <i>Neotephritis</i> .....           | 57.32 |
| <i>rupta</i> (Wulp), 1899 ( <i>Hexachaeta</i> ), <i>Blepharoneura</i> .....         | 57.18 |
| <i>rustica</i> Bates, 1934, <i>Pseudacrotaenia</i> .....                            | 57.37 |

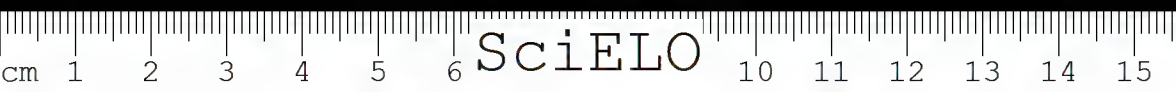
|  |       |
|--|-------|
| <i>saga</i> Giglio-Tos, 1893, <i>Blepharoneura</i> .....                         | 57.18 |
| <i>sagittata</i> Stone, 1939, <i>Lucumaphila</i> .....                           | 57.30 |
| <i>salesopolitana</i> Aczél, 1955, <i>Tomoplagia</i> .....                       | 57.47 |
| <i>schausi</i> Aldrich, 1925, <i>Anastrepha</i> .....                            | 57.15 |
| <i>schineri</i> Hendel, 1914, <i>Anastrepha</i> .....                            | 57.11 |
| <i>scholae</i> Capoor, 1955, <i>Anastrepha</i> .....                             | 57.15 |
| <i>schultzi</i> Blanchard, 1938, <i>Anastrepha</i> .....                         | 57.15 |
| <i>scitula</i> (Wulp), 1900 ( <i>Euaresta</i> ), <i>Tetreuaresta</i> .....       | 57.44 |
| <i>scobinae</i> Stone, 1942, <i>Anastrepha</i> .....                             | 57.16 |
| <i>scudderi</i> (Weyenbergh), 1882 ( <i>Trypeta</i> ), <i>Strobelia</i> .....    | 57.42 |
| <i>scutellaris</i> (Macquart), 1851 ( <i>Urophora</i> ), <i>Rhagoletis</i> ..... | 57.40 |
| <i>scutellata</i> Wiedemann, 1830 ( <i>Trypeta</i> ) .....                       | 57.58 |
| <i>scutellatus</i> Hendel, 1936, <i>Cryptodacus</i> .....                        | 57.21 |
| <i>scutellatus</i> Ségué, 1933 ( <i>Acanthiophilus</i> ) .....                   | 57.57 |
| <i>seabrai</i> Lima, 1953, <i>Hexachaeta</i> .....                               | 57.28 |
| <i>secreta</i> Hering, 1942, <i>Trupanea</i> .....                               | 57.49 |
| <i>semifusca</i> (Wulp), 1900 ( <i>Tephritis</i> ), <i>Paroxyna</i> .....        | 57.35 |
| <i>semiguttata</i> Becker, 1919 ( <i>Tephritis</i> ) .....                       | 57.57 |
| <i>separata</i> Hendel, 1914, <i>Tomoplagia</i> .....                            | 57.47 |
| <i>separata</i> (Malloch), 1933 ( <i>Trypanea</i> ), <i>Lamproxynella</i> .....  | 57.30 |
| <i>serpentina</i> (Wiedemann), 1830 ( <i>Dacus</i> ), <i>Anastrepha</i> .....    | 57.16 |
| <i>Serpentinographa</i> Aczél, 1950 .....  | 57.41 |
| <i>setifrons</i> Malloch, 1933, <i>Trupanea</i> .....                            | 57.52 |
| <i>setulosa</i> (Malloch), 1933 ( <i>Trypanea</i> ), <i>Tephritis</i> .....      | 57.43 |
| <i>shannoni</i> Lima, 1953, <i>Hexachaeta</i> .....                              | 57.28 |
| <i>shannoni</i> Stone, 1942, <i>Anastrepha</i> .....                             | 57.16 |
| <i>signifera</i> Hering, 1937, <i>Dyseuaresta</i> .....                          | 57.23 |





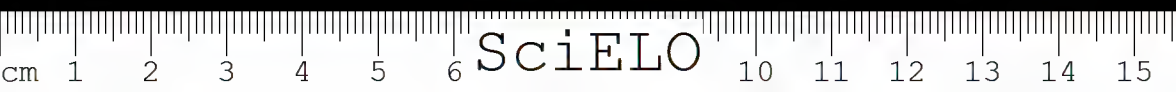
|   |       |
|---|-------|
| <i>silvai</i> Lima, 1934, <i>Anastrepha</i> .....                                   | 57.9  |
| <i>silvai</i> Lima, 1947, <i>Cryptodacus</i> .....                                  | 57.21 |
| <i>similis</i> Greene, 1934, <i>Anastrepha</i> .....                                | 57.16 |
| <i>simplex</i> Becker, 1919, <i>Urophora</i> .....                                  | 57.54 |
| <i>simplex</i> Blanchard, 1852 ( <i>Acinia</i> ) .....                              | 57.58 |
| <i>simulata</i> (Malloch), 1933 ( <i>Trypanea</i> ), <i>Tephritis</i> .....         | 57.43 |
| <i>sinica</i> (Walker), 1857 ( <i>Trypeta</i> ), <i>Hexachaeta</i> .....            | 57.27 |
| <i>Siptographa</i> , error .....  | 57.53 |
| <i>sobrina</i> Hering, 1940, <i>Paracantha</i> .....                                | 57.33 |
| <i>sobrinata</i> (Wulp), 1900 ( <i>Euaresta</i> ), <i>Dyseuaresta</i> .....         | 57.23 |
| <i>socialis</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Hexachaeta</i> .....       | 57.28 |
| <i>socialis</i> authors, <i>Hexachaeta</i> .....                                    | 57.27 |
| <i>sodalis</i> Stone, 1942, <i>Anastrepha</i> .....                                 | 57.16 |
| <i>solaris</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Trupanea</i> .....               | 57.50 |
| <i>solivaga</i> Hering, 1942, <i>Trupanea</i> .....                                 | 57.52 |
| <i>soluta</i> Bezzi, 1909, <i>Anastrepha</i> .....                                  | 57.11 |
| <i>sororcula</i> authors, <i>Dioxyna</i> .....                                      | 57.22 |
| <i>sororcula</i> (Wiedemann), <i>Dioxyna</i> (not Neotropical) .....                | 57.22 |
| <i>spadix</i> Bates, 1934, <i>Acrotaenia</i> .....                                  | 57.6  |
| <i>sparsa</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Eutreta</i> .....            | 57.25 |
| <i>spatulata</i> Stone, 1942, <i>Anastrepha</i> .....                               | 57.16 |
| <i>speciosa</i> Hendel, 1914, <i>Xanthaciura</i> .....                              | 57.56 |
| <i>speciosa</i> Stone, 1942, <i>Anastrepha</i> .....                                | 57.16 |
| <i>spectabilis</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Tetreuaresta</i> .....       | 57.44 |
| <i>Spilographa</i> Loew, 1862 .....   | 57.53 |
| <i>spitzii</i> Lima & Leite, 1952, <i>Hexachaeta</i> .....                          | 57.26 |
| <i>splendida</i> (Giglio-Tos), 1893 ( <i>Blepharoneura</i> ), <i>Hexachaeta</i> ... | 57.28 |
| <i>stacta</i> Hendel, 1914, <i>Tomoplagia</i> .....                                 | 57.47 |
| <i>staminea</i> (Wulp), 1900 ( <i>Tephritis</i> ), <i>Neotephritis</i> .....        | 57.32 |
| <i>stellata</i> Macquart, 1843 ( <i>Acinia</i> ) .....                              | 57.58 |
| <i>stenoptera</i> Hendel, 1914, <i>Trupanea</i> .....                               | 57.52 |
| <i>stonei</i> Aczél, 1955, <i>Tomoplagia</i> .....                                  | 57.47 |
| <i>stonei</i> Aczél, 1952, <i>Xanthaciura</i> .....                                 | 57.56 |
| <i>stonei</i> Lima, 1953, <i>Pseudophorellia</i> .....                              | 57.39 |
| <i>stonei</i> (Stuardo Ortiz), 1946 ( <i>Trupanea</i> ), <i>Tephritis</i> .....     | 57.43 |
| <i>Stoneola</i> Hering, 1941 .....  | 57.42 |
| <i>striata</i> Schiner, 1868, <i>Anastrepha</i> .....                               | 57.16 |
| <i>striata</i> (Wulp), 1899 ( <i>Spilographa</i> ), <i>Trypeta</i> .....            | 57.54 |
| <i>striatella</i> Wulp, 1899, <i>Rhagoletis</i> .....                               | 57.41 |
| <i>striola</i> Fabricius, 1805 ( <i>Tephritis</i> ) .....                           | 57.58 |
| <i>Strobelia</i> Rondani, 1868 .....  | 57.42 |
| <i>strobelioides</i> (Hendel), 1914 ( <i>Ictericia</i> ), <i>Ictericodes</i> .....  | 57.29 |
| <i>Stylia</i> , authors .....   | 57.34 |
| <i>subaster</i> (Malloch), 1933 ( <i>Trypanea</i> ), <i>Trypanaresta</i> .....      | 57.53 |
| <i>submunda</i> Lima, 1937, <i>Anastrepha</i> .....                                 | 57.16 |
| <i>subradiata</i> Wulp, 1900, <i>Tephritis</i> .....                                | 57.43 |
| <i>subramosa</i> Stone, 1942, <i>Anastrepha</i> .....                               | 57.16 |
| <i>subtypica</i> Blanchard, 1961, <i>Anastrepha</i> .....                           | 57.11 |
| <i>superflua</i> Stone, 1942, <i>Anastrepha</i> .....                               | 57.16 |
| <i>suspecta</i> Malloch, 1933 ( <i>Trypanea</i> ) .....                             | 57.57 |
| <i>suspensa</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Anastrepha</i> .....            | 57.16 |

|   |              |
|---|--------------|
| <i>suspensa</i> authors, <i>Anastrepha</i> .....                                    | 57.11        |
| <i>sylvicola</i> Knab, 1915, <i>Anastrepha</i> .....                                | 57.16        |
| <i>symmophora</i> Hering, 1942, <i>Trupanea</i> .....                               | 57.52        |
| <i>syssema</i> Hendel, 1914, <i>Dictyotrypeta</i> .....                             | 57.21        |
| <i>taenipennis</i> Hering, 1941, <i>Paroxyna</i> .....                              | 57.35        |
| <i>tarsata</i> Wulp, 1899, <i>Acrotaenia</i> .....                                  | 57.6         |
| <i>teli</i> Stone, 1942, <i>Anastrepha</i> .....                                    | 57.16        |
| <i>tenuis</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Dyseuaresta</i> .....             | 57.23        |
| <i>Tephrella</i> , authors .....  | 57.5         |
| <i>Tephritis</i> Latreille, 1804 .....  | 57.43        |
| <i>teretis</i> Stone, 1942, <i>Anastrepha</i> .....                                 | 57.16        |
| <i>tessariae</i> (Kieffer & Jörgenson), 1910 ( <i>Urophora</i> ), <i>Acinia</i> ..  | 57.5         |
| <i>testudinea</i> authors, <i>Acrotaenia</i> .....                                  | 57.6         |
| <i>testudinea</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Acrotaenia</i> .....          | 57.6         |
| <i>tetanops</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Oedicarena</i> .....            | 57.32        |
| <i>Tetraciura</i> Hendel, 1914 .....  | 57.54        |
| <i>tetraspina</i> (Phillips), 1923 ( <i>Aciura</i> ), <i>Xanthaciura</i> .....      | 57.56        |
| <i>Tetreuaresta</i> Hendel, 1928 .....  | 57.43        |
| <i>thaumasta</i> (Hering), 1942 ( <i>Acanthiophilus</i> ), <i>Neotephritis</i> ...  | 57.32        |
| <i>thetis</i> Hendel, 1914, <i>Blepharoneura</i> .....                              | 57.18        |
| <i>thetis</i> Hendel, 1914, <i>Xanthaciura</i> .....                                | 57.56        |
| <i>thomae</i> (Curran), 1928 ( <i>Ensina</i> ), <i>Dioxyna</i> .....                | 57.22        |
| <i>thomsoni</i> Hendel, 1914, <i>Trupanea</i> .....                                 | 57.52        |
| <i>timida</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Tetreuaresta</i> .....            | 57.44        |
| <i>titschacki</i> Hering, 1941, <i>Lamproxyna</i> .....                             | 57.29        |
| <i>titschacki</i> Hering, 1941, <i>Tomoplagia</i> .....                             | 57.47        |
| <i>titschacki</i> Hering, 1941, <i>Trypanaresta</i> .....                           | 57.53        |
| <i>toba</i> (Lindner), 1928 ( <i>Camaromyia</i> ), <i>Euaresta</i> .....            | 57.24        |
| <i>Tomoplagia</i> Coquillett, 1910 .....  | 57.45        |
| <i>Tomoplagiodes</i> Aczél, 1954 .....  | 57.48        |
| <i>townsendi</i> Bezzi, 1923, <i>Urophora</i> .....                                 | 57.54        |
| <i>townsendi</i> Greene, 1934, <i>Anastrepha</i> .....                              | 57.17        |
| <i>Toxotrypana</i> Gerstäcker, 1860 .....   | 57.48        |
| <i>triangulata</i> Shaw, 1962, <i>Anastrepha</i> .....                              | 57.17        |
| <i>tricincta</i> (Loew), 1873 ( <i>Trypeta</i> ), <i>Anastrepha</i> .....           | 57.14        |
| <i>tridentata</i> (Hendel), 1914 ( <i>Pseudeutreta</i> ), <i>Polymorphomyia</i> ... | 57.36        |
| <i>trinidadensis</i> Greene, 1934, <i>Anastrepha</i> .....                          | 57.11, 57.13 |
| <i>trinotata</i> Bates, 1934, <i>Dyseuaresta</i> .....                              | 57.23        |
| <i>tripuncta</i> (Malloch), 1933 ( <i>Trypanea</i> ), <i>Tephritis</i> .....        | 57.43        |
| <i>tripunctata</i> Hendel, 1914, <i>Tomoplagia</i> .....                            | 57.47        |
| <i>tripunctata</i> Wulp, 1899, <i>Anastrepha</i> .....                              | 57.17        |
| <i>trisignata</i> Foote, 1960, <i>Acrotaenia</i> .....                              | 57.6         |
| <i>trivirgulata</i> Foote, 1960, <i>Urophora</i> .....                              | 57.54        |
| <i>trivittata</i> (Lutz & Lima), 1918 ( <i>Plagiotoma</i> ), <i>Tomoplagia</i> .... | 57.48        |
| <i>Trupanea</i> Guettard, 1762 .....  | 57.48        |
| <i>Trupanea</i> Schränk, 1795 .....   | 57.48        |
| <i>Trypanaresta</i> Hering, 1940 .....  | 57.53        |
| <i>Trypanea</i> , emendation .....  | 57.49        |
| <i>Trypeta</i> Meigen, 1803 .....   | 57.53        |
| <i>tubifera</i> (Walker), 1857 ( <i>Trypeta</i> ), <i>Anastrepha</i> .....          | 57.17        |

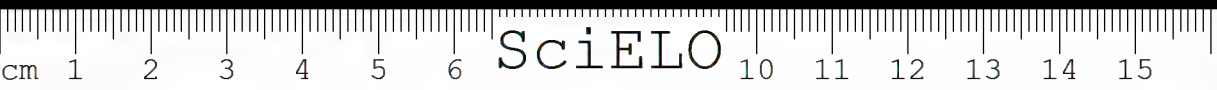


|  |       |
|--|-------|
| <i>tucumana</i> Aczél, 1953, <i>Cecidocharella</i> .....                             | 57.18 |
| <i>tucumanensis</i> Malloch, 1933, <i>Trupanea</i> .....                             | 57.52 |
| <i>tumida</i> Stone, 1942, <i>Anastrepha</i> .....                                   | 57.17 |
| <i>turicai</i> Blanchard, 1961, <i>Anastrepha</i> .....                              | 57.17 |
| <i>turpiniae</i> Stone, 1942, <i>Anastrepha</i> .....                                | 57.17 |
| <i>typica</i> Blanchard, 1961, <i>Anastrepha</i> .....                               | 57.11 |
| <i>umbrata</i> (Cresson), 1907 ( <i>Tephritis</i> ), <i>Paroxyna</i> .....           | 57.35 |
| <i>umbrosa</i> Blanchard, 1961, <i>Anastrepha</i> .....                              | 57.17 |
| <i>undosa</i> Stone, 1942, <i>Anastrepha</i> .....                                   | 57.17 |
| <i>unica</i> Becker, 1919, <i>Urophora</i> .....                                     | 57.54 |
| <i>unicolor</i> (Loew), 1862 ( <i>Trypeta</i> ), <i>Anastrepha</i> .....             | 57.11 |
| <i>unicolor</i> Walker, 1837, <i>Tephritis</i> .....                                 | 57.43 |
| <i>unifascia</i> Hendel, 1914, <i>Tomoplagia</i> .....                               | 57.48 |
| <i>unimaculosa</i> Hering, 1941, <i>Trupanea</i> .....                               | 57.52 |
| <i>unipuncta</i> Malloch, 1933, <i>Xanthaciura</i> .....                             | 57.56 |
| <i>unipuncta</i> Seín, 1933, <i>Anastrepha</i> .....                                 | 57.16 |
| <i>Urellia</i> Robineau-Desvoidy, 1830 .....   | 57.49 |
| <i>urichi</i> (Greene), 1934 ( <i>Anastrepha</i> ), <i>Lucumaphila</i> .....         | 57.30 |
| <i>Urophora</i> Robineau-Desvoidy, 1830 .....  | 57.54 |
| <i>utilis</i> Stone, 1947, <i>Procecidochares</i> .....                              | 57.37 |
| <i>valida</i> Lima, 1954, <i>Hexachaeta</i> .....                                    | 57.28 |
| <i>varia</i> Walker, 1852 ( <i>Trypeta</i> ) .....                                   | 57.58 |
| <i>variegata</i> Aczél, 1954, <i>Zonosemata</i> .....                                | 57.56 |
| <i>venezolensis</i> Hering, 1939, <i>Paroxyna</i> .....                              | 57.35 |
| <i>venezuelana</i> Lima, 1953, <i>Hexachaeta</i> .....                               | 57.28 |
| <i>vernoniae</i> Hering, 1938, <i>Tomoplagia</i> .....                               | 57.48 |
| <i>vespillo</i> (Schiner), 1868 ( <i>Carphotricha</i> ), <i>Pseudacrotaenia</i> .... | 57.37 |
| <i>vicina</i> (Wulp), 1899 ( <i>Urellia</i> ), <i>Trupanea</i> .....                 | 57.52 |
| <i>vidrapennis</i> Bush, 1965, <i>Zonosemata</i> .....                               | 57.56 |
| <i>vidua</i> Hering, 1942 ( <i>Trypanea</i> ) .....                                  | 57.57 |
| <i>violacea</i> Aczél, 1953, <i>Cecidochares</i> .....                               | 57.20 |
| <i>virescens</i> Lima, 1937, <i>Anastrepha</i> .....                                 | 57.7  |
| <i>virginalis</i> Hering, 1942, <i>Rhachiptera</i> .....                             | 57.40 |
| <i>vittatum</i> Aczél, 1953, <i>Rhithrum</i> .....                                   | 57.42 |
| <i>vittigera</i> (Coquillett), 1899 ( <i>Zonosema</i> ), <i>Zonosemata</i> .....     | 57.56 |
| <i>vittipes</i> Rondani, 1863 ( <i>Tephritis</i> ) .....                             | 57.58 |
| <i>vittithorax</i> (Macquart), 1851 ( <i>Urophora</i> ), <i>Anastrepha</i> .....     | 57.16 |
| <i>voneda</i> Walker, 1849 ( <i>Trypeta</i> ) .....                                  | 57.58 |
| <i>vulpiana</i> Enderlein, 1911, <i>Baryplegma</i> .....                             | 57.17 |
| <i>vulpina</i> Hering, 1942, <i>Trupanea</i> .....                                   | 57.53 |
| <i>wheeleri</i> Curran, 1932, <i>Trupanea</i> .....                                  | 57.53 |
| <i>willincki</i> Aczél, 1950, <i>Rhagoletis</i> .....                                | 57.41 |
| <i>wulpiana</i> , error, <i>Baryplegma</i> .....                                     | 57.17 |
| <i>Xanthaciura</i> Hendel, 1914 .....  | 57.54 |
| <i>xanthochaeta</i> Aldrich, 1923, <i>Eutreta</i> .....                              | 57.25 |
| <i>xanthochaeta</i> Hendel, 1914, <i>Anastrepha</i> .....                            | 57.17 |
| <i>xanthogastra</i> Aczél, 1950, <i>Rhagoletotrypeta</i> .....                       | 57.42 |

|   |       |
|---|-------|
| zernyi (Lima), 1934 (Anastrepha), Lucumaphila ..... | 57.31 |
| zeteki Greene, 1934, Anastrepha .....               | 57.17 |
| zeteki Lima, 1953, Hexachaeta .....                 | 57.28 |
| zikani Lima, 1934, Anastrepha .....                 | 57.9  |
| zonata Hendel, 1914 (Trypanea) .....                | 57.57 |
| Zonosemata Benjamin, 1934 .....                     | 57.56 |
| zoqui Bush, 1966, Rhagoletis .....                  | 57.41 |
| zuelaniae Stone, 1942, Anastrepha .....             | 57.17 |







SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

58

## FAMILY TACHINISCIDAE

NELSON PAPAVERO

*Departamento de Zoologia, Secretaria da Agricultura  
São Paulo, Brasil*

Only one genus and one species described in the Neotropical region. This family occurs also in Africa (South Rhodesia; Malloch, 1931). Nothing is known about the biology.

## Genus TACHINISCA Kertész

TACHINISCA Kertész, 1903:355. Type-species, *cyaneiventris* Kertész (mon.).

CYANEIVENTRIS Kertész, 1903:357, pl. 15. Type-locality: Peru, Vilcanota; Bolivia, Songo, Cillunticara. Distr. — Peru, Bolivia, Brazil. Ref. — Lopes, 1934:518.

## LITERATURE CITED

KERTÉSZ, K.

1903. Eine neue Familie der acalyptraten Musciden. *Ann. Mus. Nat. Hung.* 1:355-358, pl. 15.

LOPES, H. S.

1934. *Tachinisca cyaneiventris* Kertész (Dipt. Tachiniscidae). *Rev. Entom., Rio de Janeiro* 4:518-519.

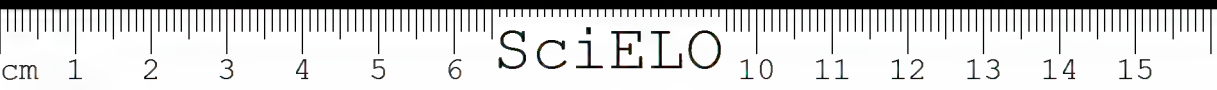
MALLOCH, J. R.

1931. Exotic Muscaridae (Diptera) — XXXII. *Ann. & Mag. Nat. Hist.* (10) 7:314-340.

Published under the auspices of the "Fundação de Amparo à Pesquisa do Estado de São Paulo."

58.1

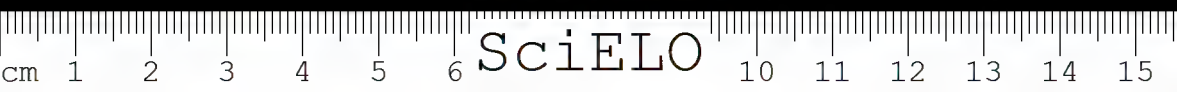
DEPARTAMENTO DE ZOOLOGIA  
BIBLIOTECA  
AGRICULTURA



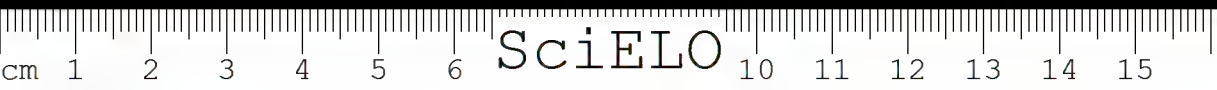
SciELO

SUPERFAMILY SCIOMYZOIDEA

- Family Helcomyzidae
- Family Ropalomeridae
- Family Coelopidae
- Family Dryomyzidae
- Family Sepsidae
- Family Sciomyzidae







SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

59

## FAMILY HELCOMYZIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D. C.*

The Helcomyzidae are a small family of maritime flies of far northern and far southern regions. Some northern species are known to develop in seaweed lying on shores. The only comprehensive treatment of the family is by Hendel (1937), included in Dryomyzidae and Coelopidae. The South American species were treated by Malloch (1933).

## Genus PARACTORA Bigot

- PARACTORA Bigot, 1888:33, 38. Type-species, *fuegiana* Bigot (mon.) = *trichosterna* (Thomson).
- Actoceles* Enderlein, 1912:43. Type-species, *abscondita* Enderlein (orig. des.) = *rufipes* (Macquart).
- Pezomyia* Austen, 1913:501. Type-species, *moseleyi* Austen (orig. des.).
- ANGUSTATA Malloch, 1933:332. Type-locality: Chile, Ancud. Distr. — Chile.
- ANTARCTICA (Thomson), 1869:601 (*Orygma*). Type-locality: "Patagonia". Distr. — Argentina (Patagonia, Tierra del Fuego), Chile (Ancud). Ref. — Malloch, 1933:331.
- rufifrons* Bigot, 1888:35 (*Leria*). Type-locality: Argentina, Tierra del Fuego, "Baie Orange".
- cinerascens* Bigot, 1888:37 (*Actora*). Type-locality: Argentina, Tierra del Fuego, "Baie Orange". Note: Enderlein (1912:96) states that pl. 4, fig. 4, captioned as of this species, is actually of *Actora rufina* (see Pallopteridae).
- MOSELEYI (Austen), 1913:503, fig. 2 (*Pezomyia*). Type-locality: Falkland Islands, West Falkland, Port North. Distr. — Falkland Islands. Ref. — Malloch, 1933:333, figs. 60b, c.
- RUFIPES (Macquart), 1843:420 (sep., p. 263) (*Heteromyza*). Type-locality: "Îles Malouines" (= Falkland Islands). Distr. — Falkland Islands, South Georgia. Refs. — Malloch, 1933:335; Hendel, 1937: 187-188, figs. 4-6 (as *abscondita* End.).
- flavipes* Macquart, 1843:421 (sep., p. 264), pl. 33, fig. 5 (*Actora*). Type-locality: "Îles Malouines" (= Falkland Islands).

59.1

- abscondita* Enderlein, 1912:44, pl. 3, figs. 33, 34 (*Actoceles*). Type-locality: Falkland Islands, Port Stanley and Seal Cove.
- georgiana* Schaeffer, 1914:92 (*Actoceles*). Type-locality: South Georgia, Possession Bay.
- oblita* Lamb, 1917:388 (*Oedoparea*). Type-locality: Falkland Islands.
- TRICHOSTERNA (Thomson), 1869:602 (*Orygma*). Type-locality: "Patagonia". Distr. — Argentina (Patagonia), Falkland Islands. Refs. — Malloch, 1933:329, fig. 69a; Hendel, 1937:189, figs. 7-9 (as *fuegiana* Bigot).
- fuegiana* Bigot, 1888:39. Type-locality: Argentina, Tierra del Fuego, "Baie Orange".

#### LITERATURE CITED

AUSTEN, E. E.

1913. Diptera from the Falkland Islands, with descriptions of a new genus and two new species. *Ann. Mag. Nat. Hist.* (8)12: 499-504.

BIGOT, J. M. F.

1888. Diptères. *Mission Sci. du Cap Horn*, vol. 6, part 2:1-45, pls. 1-4. Note: Although this publication bears the imprint "1887", Bigot in 1888 (*Wien. Ent. Ztg.* 7:109) referred to it as of 1888.

ENDERLEIN, G.

1912. Die Insekten des Antarkto-Archipelata-Gebietes. *Kungl. Svensk. Vet. Akad. Handl.* 48(3):1-170, pls. 1-4.

HENDEL, F.

1937. Zur Kenntnis einiger subantarktischer Dipteren und ihrer Verwandten. *Ann. Naturhist. Mus. Wien* 48:179-193.

LAMB, C. G.

1917. Falkland Islands Diptera. *Trans. Ent. Soc. London* 1916(3/4): 387-394.

MACQUART, J.

1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1842:162-460, pls. 1-36. Also published separately, pp. 5-304.

MALLOCH, J. R.

1933. Acalyptrata. In British Museum (Natural History), *Diptera of Patagonia and South Chile*, part 6:1-499, pls. 1-4.

SCHAEFFER, C.

1914. Collembola, Siphonaptera, Diptera and Coleoptera of the South Georgia Expedition. *Brooklyn Inst. Mus. Sci. Bull.* 2:90-94.

THOMSON, C. G.

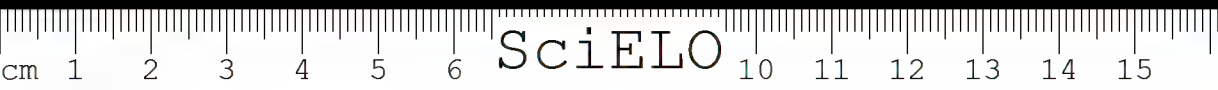
1869. Diptera. In Kongl. Vet. Akad.: *Kongliga Svenska fregatten Eugenie's Resa omkring jorden*, Part 2, Zool., (sec. 1) (1868), 617 pp., 9 pls.

# INDEX

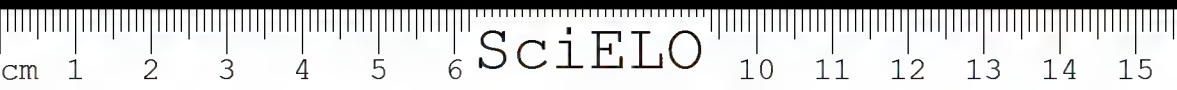
|  |      |
|--|------|
| <i>abscondita</i> (Enderlein), 1912 (Actoceles), Paractora ..... | 59.2 |
| <i>Actoceles</i> Enderlein, 1912 .....                           | 59.1 |
| <i>angustata</i> Malloch, 1933, Paractora .....                  | 59.1 |
| <i>antarctica</i> (Thomson), 1869 (Orygma), Paractora .....      | 59.1 |
| <i>cinerascens</i> (Bigot), 1888 (Actora), Paractora .....       | 59.1 |
| <i>flavipes</i> (Macquart), 1843 (Actora), Paractora .....       | 59.1 |
| <i>fuegiana</i> Bigot, 1888, Paractora .....                     | 59.2 |
| <i>georgiana</i> (Schaeffer), 1914 (Actoceles), Paractora .....  | 59.2 |
| <i>moseleyi</i> (Austen), 1913 (Pezomyia), Paractora .....       | 59.1 |
| <i>oblita</i> (Lamb), 1917 (Oedoparea), Paractora .....          | 59.2 |
| Paractora Bigot, 1888 .....                                      | 59.1 |
| <i>Pezomyia</i> Austen, 1913 .....                               | 59.1 |
| <i>rufifrons</i> (Bigot), 1888 (Leria), Paractora .....          | 59.1 |
| <i>rufipes</i> (Macquart), 1843 (Heteromyza), Paractora .....    | 59.1 |
| <i>trichosterna</i> (Thomson), 1869 (Orygma), Paractora .....    | 59.2 |



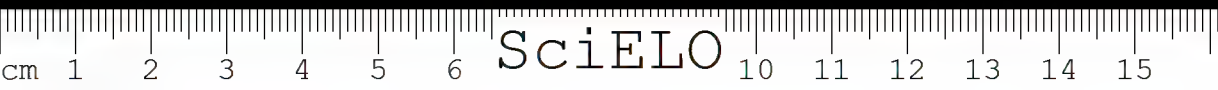




SciELO



SciELO



SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

60

## FAMILY ROPALOMERIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D. C.*

The Ropalomeridae are a family of medium to large flies found only in the Americas and of essentially tropical distribution. Only one species, *Rhytidops floridensis* (Aldrich), occurs outside the limits of this catalogue; the present list, therefore, is made to include all known species. The larvae of a few species have been found in decaying vegetable matter. Prado (1966) has presented a revision of the family.

## Genus APOPHORHYNCHUS Williston

APOPHORHYNCHUS Williston, 1895a:184. Type-species, *flavidus* Williston (mon.).

AMAZONENSIS Prado, 1966:251, figs. 106-107. Type-locality: Brazil, Amazonas, Rio Negro, São Gabriel. Distr. — Brazil.

FLAVIDUS Williston, 1895a:184 (key), 186. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Bolivia, Brazil. Ref. — Prado, 1966:249, figs. 100-105.

## Genus DACTYLISSA Fischer

DACTYLISSA Fischer, 1932:447. Type-species, *digiticornis* Fischer (orig. des.).

DIGITICORNIS Fischer, 1932:447, figs. 1-4, 23. Type-locality: Brazil, Mato Grosso, Fazenda Murtinho. Distr. — Brazil (Guanabara, Mato Grosso), Paraguay (Villarica). Ref. — Prado, 1966:258, figs. 119-131.

## Genus KROEBERIA Lindner

KROEBERIA Lindner, 1930a:125, 127. Type-species, *fuliginosa* Lindner (mon.).

FULIGINOSA Lindner, 1930a:127. Type-locality: Brazil, Rio Grande do Sul, Santa Cruz; "Brazil"; Brazil, Rio Grande do Sul. Distr. — Mexico (Oaxaca), Panama, Brazil. Ref. — Prado, 1966:253, figs. 108-118.



### Genus LENKOKROEBERIA Prado

LENKOKROEBERIA Prado, 1966:261. Type-species, *chryserea* Prado (orig. des.). Note: This genus and its type-species were published by Prado with descriptions prepared by him. The work by Papavero & Guimarães, to which Prado refers, was withdrawn from the press when it was found that both Prado and Steyskal had recognised the genus as new.

CHRYSEREA Prado, 1966:264, figs. 132-143. Type-locality: Brazil, Mato Grosso, Salobra, male; São Paulo, Araçatuba, female. Distr. — Brazil.

CILIATA (Williston), 1895a:186 (*Rhopalomera*). Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Brazil, Bolivia (Lindner, 1930b:283).

### Genus MEXICOA Steyskal

MEXICOA Steyskal, 1947:227. Type-species, *mexicana* Steyskal (orig. des.).

MEXICANA Steyskal, 1947:225, figs. 1-2. Type-locality: Mexico, Sonora, Rio Mayo. Distr. — Mexico.

### Genus RHYTIDOPS Lindner

RHYTIDOPS Lindner, 1930a:125, 126 (key), 135. Type-species, *chacoensis* Lindner (mon.).

CHACOENSIS Lindner, 1930a:136, fig. 1. Type-locality: Argentina, San José, Rio Pilcomayo. Distr. — Argentina.

FLORIDENSIS (Aldrich), 1932:10 (*Kroeberia*). Type-locality: U.S.A., Florida, Putnam County. Distr. — U.S.A. (Florida). Also misspelled *floridana* by Malloch (1941:49).

### Genus ROPALOMERA Wiedemann

ROPALOMERA Wiedemann, 1824:17. Type-species, *Dictya clavipes* Fabricius (Macquart, 1843:359[202]).  
*Rhopalomera*, emend.

BRACHYPTERA Lindner, 1930a:134. Type-locality: Brazil, Bahia. Distr. — Brazil.

CLAVIPES (Fabricius), 1805:329 (*Dictya*). Type-locality: "South America". Distr. — Guyana, Surinam, Ecuador, Brazil, Bolivia, Paraguay. Ref. — Prado, 1963:463, figs. 15-24.

*spinosa* Perty, 1833:189, pl. 37, fig. 14 (not 7, as in text). Type-locality: Brazil, Piauí.

*nebulosa* Walker, 1857:225. Type-locality: "Valley of the Amazon". Synonymy by Prado, confirmed from type by me.

DISTINCTA Prado, 1966:232, figs. 52-56. Type-locality: Brazil, Mato Grosso, Fazenda Murtinho. Distr. — Brazil.

FEMORATA (Fabricius), 1805:326 (*Dictya*). Type-locality: "South America". Distr. — Mexico (Yucatán), south to Brazil, Bolivia, Paraguay, and Argentina (Misiones). Ref. — Prado, 1966:223, figs. 25-35.

FENESTRATA Prado, 1966:219, figs. 14-24. Type-locality: Brazil, Guanabara, Rio de Janeiro, Gávea. Distr. — Brazil.

GLABRATA Prado, 1966:230, figs. 45-51. Type-locality: Brazil, Mato Grosso, Três Lagoas, Fazenda Floresta. Distr. — Brazil.

- GOYANA Prado, 1966:227, figs. 36-41. Type-locality: Brazil, Goiás, Campinas. Distr. — Brazil.
- GUIMARAESI Prado, 1966:229, figs. 42-44. Type-locality: Brazil, Mato Grosso, Três Lagoas, Fazenda Floresta. Distr. — Brazil. Also spelled "*guimaraënsi*" in key, with "til" over second a, which is contrary to the Rules.
- MINIMA Curran, 1934:432. Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana. This species has been synonymized with *R. clavipes* by Prado, but I consider it likely from the characters cited by Curran that it is a distinct species or even synonymous with *R. nudipes*.
- NUDIPES Frey, 1959:48. Type-locality: Brazil, Amazonas, Taracua, Uaupés, Rio Negro. Distr. — Brazil.
- OCCULTA Prado, 1966:239, figs. 77-90. Type-locality: Brazil, Goiás, Campinas. Distr. — Brazil (São Paulo, Minas Gerais, Rio de Janeiro).
- STICTICA Wiedemann, 1830:573. Type-locality: "Brazil". Distr. — Brazil (Northeast, Central South, South), Paraguay. Ref. — Prado, 1963:460, figs. 1-14.
- maculipennis* Macquart, 1843:360 (203), pl. 27, fig. 3. Type-locality: "Brazil".
- punctipennis* Rondani, 1848:80. Type-locality: "Brazil".
- similis* Rondani, 1848:81. Type-locality: "Brazil".
- TESSELLATA Prado, 1966:235, figs. 57-69. Type-locality: Brazil, Amazonas, Maués. Distr. — Brazil (Amazonas, Amapá, Pará). Also spelled "*tesselata*" in key.
- TIBIALIS Walker, 1852:375; 1857:224. Type-locality: not cited; in second publication, "Valley of the Amazon". My examination of Walker material in the British Museum (Natural History) leads me to believe that both Walker descriptions refer to the same species, the one renamed as *R. walkeri* by Prado. The species recognised as *R. tibialis* by Prado is renamed below. Distr. — Brazil (Amapá, Amazonas, Pará).
- walkeri* Prado, 1966:243, figs. 91-97. Type-locality: Brazil, Pará, Belém, Santa Bárbara. N. SYN.
- TITILLATOR Steyskal, new species. Holotype: Brazil, Pará, Óbidos, November 1953 (J. Brazilino), n° 13202 in Instituto Oswaldo Cruz. This is one of the specimens upon which Prado based his description of *R. tibialis* Walker, and that description may serve for the description of this species. Distr. — Brazil (Pará). Ref. — Prado, 1966:237, figs. 70-76.
- XANTHOPS Williston, 1895b:213. Type-locality: Mexico, Yucatán. Distr. — Mexico, Guatemala, Nicaragua. Ref. — Wulp, 1898:379, pl. 10, figs. 3, 3a, 3b (as *Ropalomera* sp.).

#### Genus WILLISTONIELLA Mik

- Rhopalomyia* Williston, 1895a:184. Type-species, *Ropalomera pleuropunctata* Wiedemann (mon.; preocc. Rübsaamen, 1892).
- WILLISTONIELLA Mik, 1895:136 (nom. nov. for *Rhopalomyia* Williston). Type-species, *Ropalomera pleuropunctata* Wiedemann (aut.).



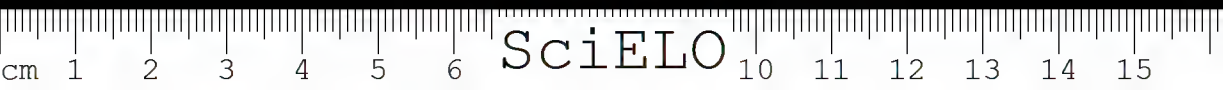
- PLEUROPUNCTATA (Wiedemann), 1824:18 (*Ropalomera*). Type-locality: "South America". Distr. — South Mexico to Panama, Trinidad, South America south to northern Argentina. Refs. — Prado, 1963:466, figs. 25-36; Steyskal, 1957:71, fig. 5.  
*vittifrons* Rondani, 1848:81 (*Rhopalomera*). Type-locality: "Brazil".  
*substituta* Walker, 1857:225 (*Ropalomera*). Type-locality: "Brazil".

#### UNRECOGNIZED SPECIES

- FLAVICEPS Macquart, 1846:336 (08), pl. 18, fig. 6 (*Ropalomera*). Type-locality: "Nouvelle Grenade" (= Colombia). May belong in *Apophorhynchus* — Prado, 1966:246.  
 RUFIPIES Walker, 1849:1063 (*Ropalomera*). Type-locality: not cited. I could not locate the type in the British Museum (Natural History) in 1964. Hennig (1932:121) followed Hendel in treating it as an unrecognized species of Richardiidae.  
 VARIPES Walker, 1862:375 (*Ropalomera*). Type-locality: "Colombia". I could not locate the type in the British Museum (Natural History) in 1964. Prado (1966:246) treated it as unrecognizable from description.

#### LITERATURE CITED

- ALDRICH, J. M.  
 1932. New Diptera, or two-winged flies, from America, Asia, and Java, with additional notes. *Proc. U. S. Nat. Mus.* 81 (art. 9): 1-28, pl. 1.  
 CURRAN, C. H.  
 1934. The Diptera of Kartabo, Bartica district, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Am. Mus. Nat. Hist.* 66:287-532.  
 FABRICIUS, J. C.  
 1805. *Systema antliatorum secundum ordines, genera, species*, 373 + 30 pp. Brunsvigae (= Brunswick).  
 FISCHER, C. R.  
 1932. Um genero e duas especies novas de Rhopalomeridae do Brasil, e o pupario de *Willistoniella pleuropunctata* Wied. (Dipt.). *Rev. de Ent.* 2:441-450.  
 FREY, R.  
 1959. Ueber südamerikanische Rhopalomeriden (Diptera). *Notulae Ent.* 59:47-48.  
 HENNIG, W.  
 1938. Beiträge zur Kenntnis der Richardiiden (Dipt.). (Schluss). *Rev. de Ent.* 8:111-122.  
 LINDNER, E.  
 1930a. Revision der amerikanischen Dipteren-Familie der Rhopalomeridae. *Deutsch. Ent. Zts.* 1930:122-137.  
 1930b. Die Ausbeute der deutschen Chaco-Expedition 1925/26. — Diptera. XXI. Rhopalomeridae und XXII. Ortaliidae. *Konowia* 9:282-284.



MACQUART, J.

1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1842:162-460, pls. 1-36 (also published separately with different pagination, vol. 2, pt. 3).

1846. Diptères exotiques nouveaux ou peu connus. [1er.] supplément. *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1844:133-364, pls. 1-20 (also published separately with different pagination).

MALLOCH, J. R.

1941. Florida Diptera. *Florida Ent.* 24:49-51.

MIK, J.

1895. Bemerkungen zu den Dipteren-Gattungen *Pelecocera* Meig. und *Rhopalomera* Wied. *Wien. Ent. Ztg.* 14:133-136.

PERTY, M.

1830-1834. *Delectus animalium, quae in itinere per Brasiliam... co-  
legerunt*, etc., pp. i-iii, 1-224, pls. 1-40. Monachii (= Munich).

PRADO, A. P. DO

1963. Primeira contribuição ao conhecimento da família Rhopalome-  
ridae (Diptera). *Mem. Inst. Oswaldo Cruz* 61:459-470.

1966. Segunda contribuição ao conhecimento da família Rhopalo-  
meridae (Diptera, Acalyptratae). *Studia Ent.* 8(1965):209-268.

RONDANI, G.

1848. Esame di varie specie d'insetti ditteri brasiliani. In Truqui:  
*Studi Ent.* 1:63-112, pl. 3bis.

STEYSKAL, G. C.

1947. A new genus and species of Rhopalomeridae from northwestern  
Mexico (Diptera). *Proc. Ent. Soc. Wash.* 49:225-228.

1957. The postabdomen of male acalyptrate Diptera. *Ann. Ent. Soc.  
Am.* 50:66-73.

WALKER, F.

1849. *List of the specimens of dipterous insects in the collection of  
the British Museum.* Part IV:689-1172. London.

1852. In W. W. Saunders, ed.: *Insecta Saundersiana.* Vol. 1, pt.  
4:253-414. London. (The whole work, published in parts at va-  
rious dates, contains 8 pls., of which the only ones showing  
Acalyptratae are nos. 7 and 8).

1857. Characters of undescribed Diptera in the collection of W. W.  
Saunders. *Trans. Ent. Soc. London* (2)4:116-158, 190-235.

WIEDEMANN, C. R. W.

1824. *Munus rectoris in Academia Christiana Albertina aditurus,  
Analecta entomologica ex Museo Regio Havniensi*, etc., 1-60 pp.,  
1 pl. Killiae (=Kiel).

1830. *Aussereuropäische zweiflügelige Insekten* 2:xii + 684 pp., pls.  
7-10b.

WILLISTON, S. W.

1895a. On the Rhopalomeridae. *Psyche* 7:183-187.

1895b. *Rhopalomera xanthops* sp. nov. *Psyche* 7:213.

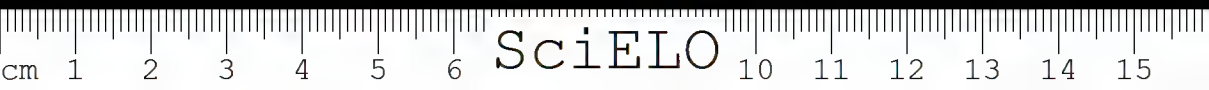
WULP, F. M. VAN DER

1898. Group Ortalinae (part). In F. D. Godman, & O. Salvin, eds.:  
*Biol. Centr.-Amer., Zool., Ins., Diptera* 2:377-384, pl. 10.

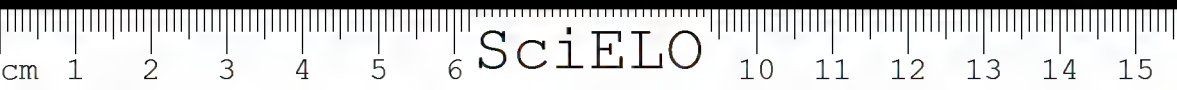


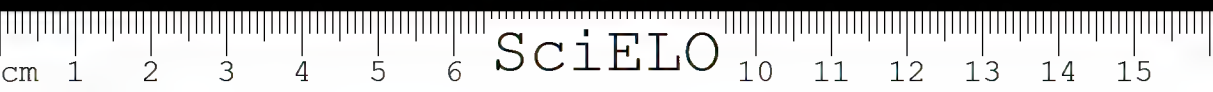
# INDEX

|   |      |
|---|------|
| amazonensis Prado, 1966, Apophorhynchus .....                 | 60.1 |
| Apophorhynchus Williston, 1895 .....                          | 60.1 |
| brachyptera Lindner, 1930, Ropalomera .....                   | 60.2 |
| chacoensis Lindner, 1930, Rhytidops .....                     | 60.2 |
| chrysera Prado, 1966, Lenkokroeberia .....                    | 60.2 |
| ciliata (Williston), 1895 (Rhopalomera), Lenkokroeberia ..... | 60.2 |
| clavipes (Fabricius), 1805 (Dictya), Ropalomera .....         | 60.2 |
| Dactylissa Fischer, 1932 .....                                | 60.1 |
| digiticornis Fischer, 1932, Dactylissa .....                  | 60.1 |
| distincta Prado, 1966, Ropalomera .....                       | 60.2 |
| femorata (Fabricius), 1805 (Dictya), Ropalomera .....         | 60.2 |
| fenestrata Prado, 1966, Ropalomera .....                      | 60.2 |
| flaviceps Macquart, 1846, Ropalomera, unrecognized .....      | 60.4 |
| flavidus Williston, 1895, Apophorhynchus .....                | 60.1 |
| floridana, error .....  | 60.2 |
| floridensis (Aldrich), 1932 (Kroeberia), Rhytidops .....      | 60.2 |
| fuliginosa Lindner, 1930, Kroeberia .....                     | 60.1 |
| glabrata Prado, 1966, Ropalomera .....                        | 60.2 |
| goyana Prado, 1966, Ropalomera .....                          | 60.2 |
| guimaraensi, see guimaraesi                                   |      |
| guimaraesi Prado, 1966, Ropalomera .....                      | 60.3 |
| Kroeberia Lindner, 1930 .....                                 | 60.1 |
| Lenkokroeberia Prado, 1966 .....                              | 60.2 |
| maculipennis Macquart, 1843, Ropalomera .....                 | 60.3 |
| mexicana Steyskal, 1947, Mexicoa .....                        | 60.2 |
| Mexicoa Steyskal, 1947 .....                                  | 60.2 |
| minima Curran, 1934, Ropalomera .....                         | 60.3 |
| nebulosa Walker, 1857, Ropalomera .....                       | 60.2 |
| nudipes Frey, 1959, Ropalomera .....                          | 60.3 |
| occulta Prado, 1966, Ropalomera .....                         | 60.3 |
| pleuropunctata (Wiedemann), 1824 (Ropalomera), Willistoniella | 60.4 |
| punctipennis Rondani, 1848, Ropalomera .....                  | 60.3 |
| Rhopalomera, emendation .....                                 | 60.2 |
| Rhopalomyia Williston, 1895 .....                             | 60.3 |
| Rhytidops Lindner, 1930 .....                                 | 60.2 |
| Ropalomera Wiedemann, 1824 .....                              | 60.2 |
| rufipes Walker, 1849, Ropalomera, unrecognized .....          | 60.4 |
| similis Rondani, 1848, Ropalomera .....                       | 60.3 |
| spinosa Perty, 1833, Ropalomera .....                         | 60.2 |
| stictica Wiedemann, 1830, Ropalomera .....                    | 60.3 |
| substituta (Walker), 1857 (Ropalomera), Willistoniella .....  | 60.4 |



|   |      |
|---|------|
| <i>tessellata</i> Prado, 1966, <i>Ropalomera</i> .....                                | 60.3 |
| <i>tibialis</i> Walker, 1852, <i>Ropalomera</i> .....                                 | 60.3 |
| <i>titillator</i> Steyskal, new, <i>Ropalomera</i> .....                              | 60.3 |
| <i>varipes</i> Walker, 1852, <i>Ropalomera</i> , unrecognized .....                   | 60.4 |
| <i>vittifrons</i> (Rondani), 1848 ( <i>Rhopalomera</i> ), <i>Willistoniella</i> ..... | 60.4 |
| <i>walkeri</i> Prado, 1966, <i>Ropalomera</i> .....                                   | 60.3 |
| <i>Willistoniella</i> Mik, 1895 .....   | 60.3 |
| <i>xanthops</i> Williston, 1895, <i>Ropalomera</i> .....                              | 60.3 |





SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

61

FAMILY COELOPIDAE

GEORGE C. STEYSKAL

*Entomology Research Division Agric. Res. Serv.*  
*U. S. Department of Agriculture*  
*Washington, D. C.*

The family Coelopidae enters the area of this catalogue with a single species in Baja California, Mexico. The family is otherwise distributed largely along shores of northern and far southern regions around the world. The known larvae feed in kelp, and for this reason the species are known as "kelp-flies".

Ref. — Malloch, 1933.

Genus COELOPINA Malloch

COELOPINA Malloch, 1933:341, 350. Type-species, *Coelopa anomala* Cole (mon.).

ANOMALA (Cole), 1923:470 (*Coelopa*). Type-locality: Mexico, Baja California, Las Animas Bay. Distr. — U.S.A. (California), Mexico (Baja California, Angel de la Guardia Island, Ensenada, and Las Animas Bay).

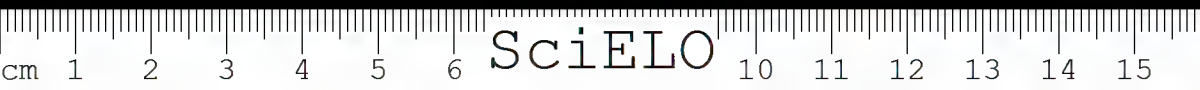
LITERATURE CITED

COLE, F. R.

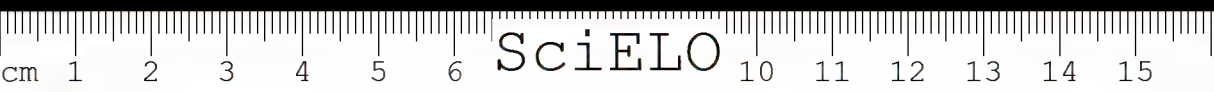
1923. Expedition of the California Academy of Sciences to the Gulf of California in 1921. Diptera from the islands and adjacent shores of the Gulf of California. II. General report. *Proc. Calif. Acad. Sci.* (4)12:457-481.

MALLOCH, J. R.

1933. The genus *Coelopa* Meigen (Diptera, Coelopidae). *Ann. Mag. Nat. Hist.* (10)11:339-350.







MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
 (FORMERLY DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO)  
 A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
 SOUTH OF THE UNITED STATES

62

## FAMILY DRYOMYZIDAE

GEORGE C. STEYSKAL

*Systematic Entomology Laboratory, IIBIII, Agr. Res. Serv.,  
 U. S. Department of Agriculture, Washington, D. C.*

Only the 2 species here listed are definitely known to occur in our area. It is possible that one or more of the species of *Dryomyza* known from farther north may eventually be found in Mexico. The family is very closely related to the Helcomyzidae, which should probably be considered a subfamily. The habits of the Dryomyzidae are little known, but the larvae are apparently saprophagous.

## Genus SCIOGRIPHONEURA Malloch

SCIOGRIPHONEURA Malloch, 1933: 300. Type-species, *nigriventris* Malloch (orig. des.).

BRUNNEA Steyskal, new species. Female. Length of wing 7 mm. Differs from *S. nigriventris* in wholly brown abdomen (only a little blackish basilaterally), wholly tawny humerus and notopleuron, tawny antenna (only apical part of 3rd segment a little infumated), small lozenge-shaped black mark apicad of frontal triangle, costal spinules of anterior row no longer or stronger than those of dorsal row, and wing veins  $R_5$  and M fused for a short distance at tip of wing. Holotype and sole known specimen, Brazil, Rio de Janeiro, Itatiaia (Faz. Serra), viii.1946 (M. P. Barretto), in the Museu de Zoologia, Universidade de São Paulo.

NIGRIVENTRIS Malloch, 1933: 301. Type-locality: Chile, Chiloé, Ancud. Distr. — Chile (Chiloé).

## SPECIES DUBIAE OR TRANSFERRED SPECIES

*Dryomyza advena* Wiedemann. See Lauxaniidae, genus *Dryomyzothoa*.

*D. dubia* Macquart. 1843: *Mém. Soc. Sci. Agr. Arts Lille* 1842: 343 (Dipt. exot., sep. 2, pt. 3: 186). "Patrie inconnue". Species dubia.

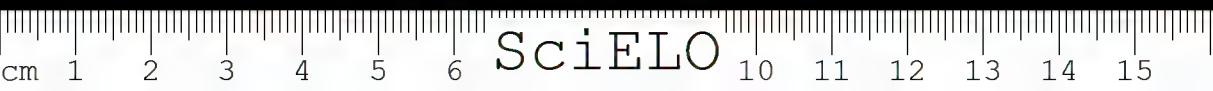
62.1

*D. maculipes* Walker, 1861: *Trans. ent. Soc. Lond.* (2) 5: 319. "Mexico".  
Species dubia.

#### LITERATURE CITED

MALLOCH, J. R.

1933. *Acalyptrata*, in *British Museum (Natural History), Diptera of Patagonia and South Chile* 6 (4): 1-391, pls. 2-7. London.



DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

63

## FAMILY SEPSIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U. S. Department of Agriculture  
Washington, D.C.*

The Sepsidae are a rather small family of medium-sized or small flies of slender build and usually of metallic purplish color. The larvae develop in various kinds of decayed matter and are especially abundant at dung and carcasses. The males usually have the fore femora modified with spinules, denticles, and emarginations to aid in grasping the bases of the female's wings during copulation. Duda's great monograph (1923) is still the most important and only comprehensive work on the family. Steyskal (1943) gave a key to the American genera and Hennig (1949) included much data on the biology of the family.

## Genus MEROPLIOSEPSIS Duda

MEROPLIOSEPSIS Duda, 1926:(v.39)28. Type-species, *serxetosa* Duda (mon.).  
SEXSETOSA Duda, 1926:(v.39)28, (v.40)79, figs. 71a, b (p. 106). Type-locality:  
Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica.

## Genus NEMOPODA Robineau-Desvoidy

NEMOPODA Robineau-Desvoidy, 1830:743. Type-species, *putris* Robineau-Desvoidy (Rondani, 1874:170, 178 [4, 12]) = *nitidula* (Fallén).

The regional species are all unrecognized and it is therefore doubtful whether they actually belong in the genus.

CUBENSIS Bigot, 1886:390. Type-locality: "Cuba". Unrecognized.

FULVICEPS Bigot, 1886:391. Type-locality: Argentina, Buenos Aires. Unrecognized.

LATERALIS Macquart, 1843:390 (233). Type-locality: "Du Brésil ou du Chili". Unrecognized.

XANTHOSTOMA Bigot, 1886:391. Type-locality: Argentina, Buenos Aires. Unrecognized.

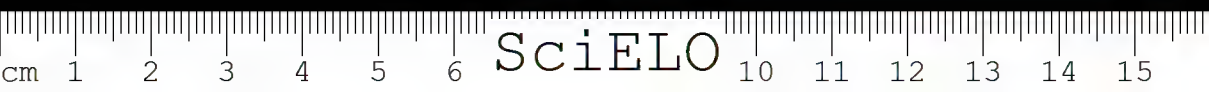
## Genus PALAEOSEPSIS Duda

*Sepsis*, subg. PALAEOSEPSIS Duda, 1926:(v.39)43. Type-species, *dentata* Becker (Hendel, 1936:62).

63.1



- ALBICONA (Thomson), 1869:588 (*Sepsis*). Type-locality: "Brazil". Distr. — Brazil.
- ARMATA (Schiner), 1868:261 (*Sepsis*). Type-locality: "Brazil". Distr. — West Indies (Puerto Rico, Haiti), Costa Rica, Panama, Guyana, Colombia, Brazil, Peru, Bolivia, Uruguay.
- hoplicnema* Melander & Spuler, 1917:17, fig. 12 (p. 81) (*Sepsis*). Type-locality: "Haiti".
- ARMILLATA (Melander & Spuler), 1917:18, fig. 6 (p. 81, captioned as of *furcata*) (*Sepsis*). Type-locality: "Haiti" (a male specimen in U.S. National Museum has been made lectotype). Distr. — West Indies (Bahamas, Puerto Rico, Haiti).
- BILOBATA (Becker), 1919:206, pl. 17, fig. 1 (*Sepsis*). Type-locality: Ecuador, Cuenca. Distr. — Ecuador.
- CARNIVORA (Curran), 1934:436 (*Sepsis*). Type-locality: Guyana, Bartica district, Kartabo. Distr. — Guyana. N. COMB.
- DENTATA (Becker), 1919:207, pl. 17, fig. 2 (*Sepsis*). Type-locality: Ecuador, Cuenca. Distr. — Venezuela, Ecuador, Bolivia.
- DENTATIFORMIS (Duda), 1926:(v.39)46, (v.40)89 (*Sepsis*). Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica.
- DISCOLOR (Bigot), 1857:823 (*Sepsis*). Type-locality: "Cuba". Unrecognized; this can hardly be equal to *P. scabra* (as *haemorrhoidalis*), as has been suggested, since Bigot stated "abdomine brunneo-nigricante."
- ECALCARATA (Thomson), 1869:588 (*Sepsis*). Type-locality: "California". Distr. — U.S.A., Mexico (Baja California).
- FURCATA (Melander & Spuler), 1917:19, fig. 11 (p. 81, captioned as of *armillata*) (*Sepsis*). Type-locality: "Jamaica". Distr. — West Indies (Puerto Rico, Cuba, Jamaica), Costa Rica, Colombia, Brazil, Peru, Paraguay.
- INCISA (Becker), 1919:206, pl. 17, fig. 8 (*Sepsis*). Type-locality: Ecuador, Cuenca. Distr. — Ecuador.
- INFLEXA (Becker), 1919:215, pl. 17, fig. 9 (*Sepsis*). Type-locality: Ecuador, Cuenca; Tio-Loma, Quinua-Loma; Mirador; Yausai; El Angel; Casitagua. Distr. — Ecuador.
- INSULARIS (Williston), 1896:431, pl. 14, fig. 159 (*Sepsis*). Type-locality: West Indies, St. Vincent Island. Distr. — U.S.A., West Indies (Bahamas, Puerto Rico, Jamaica, Haiti, Saint Vincent). This species has been confused with *P. pusio*, and records therefore are doubtful, although apparently both species occupy much of the same area.
- LATICORNIS (Duda), 1926:(v.39)45, (v.40)86, fig. 74 (p. 106) (*Sepsis*). Type-locality: Colombia, San Lorenzo. Distr. — Colombia.
- MITIS (Curran), 1927:1, fig. 2 (*Sepsis*). Type-locality: Colombia, San Lorenzo Mountains, Vista Nieve. Distr. — Colombia.
- PUSIO (Schiner), 1868:262 (*Sepsis*). Type-locality: "South America". Distr. — West Indies (Cuba, Jamaica, Puerto Rico), Costa Rica, south to Argentina. Many of the recorded localities may actually refer to *P. insularis*.
- SCABRA (Loew), 1861:42 (*Sepsis*). Type-locality: West Indies, "Cuba". Distr. — U.S.A. (Texas), West Indies (Cuba, Dominica Island,



Puerto Rico, Jamaica), Mexico, south to Paraguay and Argentina.  
*haemorrhoidalis* Schiner, 1868:261 (*Sepsis*). Type-locality: "Brazil".  
N. SYN.

*pleuralis* Coquillett, 1904:35 (*Sepsis*). Type-locality: U.S.A., Texas,  
Brownsville. N. SYN.

SIMPLICULA Steyskal, new name for *simplex* Curran, preoccupied. Type-  
locality: West Indies, Puerto Rico, Adjuntas. Distr. — West  
Indies (Puerto Rico).

*simplex* Curran, 1928:75 (*Sepsis*; preocc. Goetghebuer & Bastin, 1925).

#### Genus SEPSIS Fallén

SEPSIS Fallén, 1810:17. Type-species, *Musca cynipsea* Linnaeus (Curtis,  
1829:pl. 245). Both of the species listed here are highly dubious,  
but eventually some of the widespread holarctic species, especially  
*Sepsis punctum* (Fabricius), may be found within the limits of  
this catalogue.

FUINICOXALIS (Bigot), 1886:390 (*Nemopoda*). Type-locality: "California";  
"?Cuba". Unrecognized.

UMBRIFER Schiner, 1868:262. Type-locality: "South America". Unrecog-  
nized.

#### Genus THEMIRA Robineau-Desvoidy

THEMIRA Robineau-Desvoidy, 1830:745. Type-species, *pilosa* Robineau-  
Desvoidy (Rondani, 1874:170 [4, 12]) = *putris* (Linnaeus).

#### Subgenus ENICITA Westwood

*Enicopus* Walker, 1833:253. (preocc. Stephens, 1830). Type-species, *Sepsis*  
*annulipes* Meigen (mon.).

*Sepsis*, subg. ENICITA Westwood, 1840:148 (nom. nov. for *Enicopus* Walker).  
Type-species, *Sepsis annulipes* Meigen (aut.).

FUSCA (Bigot), 1886:387 (*Enicopus*). Type-locality: "Mexico". Unrecog-  
nized.

#### LITERATURE CITED

BECKER, T.

1919. Diptères. Brachycères. *Miss. du Serv. Géogr. de l'Armée. Me-  
sure d'un Arc Mérid. Equat. en Amer. du Sud* 10(2):163-215, pls.  
14-17.

BIGOT, J. M. F.

1857. Dipteros, in R. de la Sagra: *Historia física, política y natural  
de la Isla Cuba* 7:328-349, pl. 20 (v. 8); also in French edition,  
pp. 738-829.

1886. Diptères nouveaux ou peu connus. 29c. partie, etc. *Ann. Soc.  
Ent. France* (6)6:287-392.

COQUILLET, D. W.

1904. Diptera from southern Texas with descriptions of new species.  
*Jour. N. Y. ent. Soc.* 12:31-35.

CURRAN, C. H.

1927. Four new American Diptera. *Amer. Mus. Novitates* 275:1-4.  
1928. Insects of Porto Rico and the Virgin Islands. Diptera or two-winged flies. N. Y. Acad. Sci., *Sci. Survey Porto Rico and the Virgin Islands* 11(1):1-118.  
1934. The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Amer. Mus. Nat. Hist.* 66:287-532.

CURTIS, J.

1829. *British Entomology: Being illustrations and descriptions of the genera of insects found in Great Britain and Ireland* 6: pls. 242-289. London.

DUDA, O.

1926. Monographie der Sepsiden (Dipt.). *Ann. Naturhist. Mus. Wien* 39(1925):1-153, 40:1-110.

FALLÉN, C. F.

1810. *Spccim. entomolog. novam Diptera disponendi methodum exhibens*, 26 pp., 1 pl. Lund.

HENDEL, F.

1936. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny. *Ann. Naturhist. Mus. Wien* 47:61-106.

HENNIG, W.

1949. Sepsidae, in E. Lindner: *Die Fliegen der Palaearkt. Reg. 5* (fam. 39a):1-91, pls. 1-10, 6 inserts.

LOEW, H.

1861. Diptera aliquot in insula Cuba collecta. *Wien. Ent. Monatschr.* 5:33-43.

MACQUART, J.

1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. Sci. Agric. Arts Lille* 1842:162-460, pls. 1-36 (also published separately with different pagination).

MELANDER, A. L., & A. SPULER

1917. The Dipterous families Sepsidae and Piophilidae. *Bull. State College Wash. Agric. Exper. Sta.* 143:1-(193).

ROBINEAU-DESVOIDY, J. B.

1830. Essai sur les Myodaires. (Paris) Inst. de France, (Cl. des) Sci. Math. Phys., Acad. Roy. Sci., *Mém. présentées par divers Savans* (ser. 2) 2:1-813.

RONDANI, C.

1874. Species Italicae ordinis dipterorum (Muscaria Rndn.). Stirps XXI. — Tanypezinae Rndn. collectae et observatae. *Boll. Soc. Ent. Ital.* 6:167-182 (also published in the same year as "*Dipterologiae Italicae Prodrumus*", vol. 8, Stirps 21 [= Pt. 1], 16 pp., Firenze).

SCHINER, I. R.

1868. Diptera, in B. Wüllersdorf-Urbair: *Reise der österreichischen Fregatte Novara*, Zool. 2(1B):388 pp., pls. 1-4.

STEYSKAL, G. C.

1943. Old World Sepsidae in North America, with a key to the American genera (Diptera). *Pan-Pacific Ent.* 19:93-95.

THOMSON, C. G.

1869. 6. Diptera. Species nova descripsit, in K. Vet. Akad.: *Kongliga svenska fregatten Eugenies resa omkring Jorden*, part 2, Zool. (1):443-614, pl. 9. Stockholm, "1868".

WALKER, F.

1833. Observations on the British species of Sepsidae. *Ent. Mag.* 1:244-256.

WESTWOOD, J. O.

1840. *An introduction to the modern classification of insects. Synopsis of the genera of British insects*, 158 pp. London. (Diptera on pp. 125-158. The entire work consists of two volumes and the separately paged "Synopsis" is usually bound at the end of volume 2).

WILLISTON, S. W.

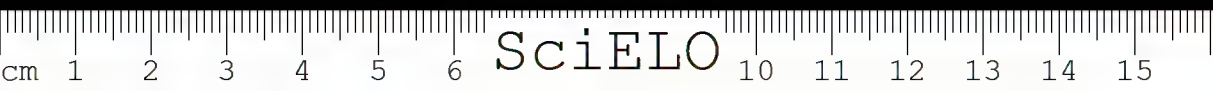
1896. On the Diptera of St. Vincent (West Indies). *Trans. ent. Soc. London* 1896:253-446, pls. 8-14.

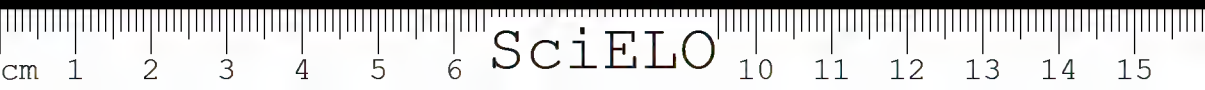
# INDEX

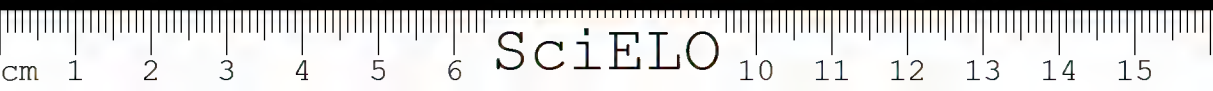
|  |      |
|--|------|
| albicoxa (Thomson), 1869 (Sepsis), Palaeosepsis .....            | 63.2 |
| armata (Schiner), 1868 (Sepsis), Palaeosepsis .....              | 63.2 |
| armillata (Melander & Spuler), 1917 (Sepsis), Palaeosepsis ....  | 63.2 |
| bilobata (Becker), 1919 (Sepsis), Palaeosepsis .....             | 63.2 |
| carnivora (Curran), 1934 (Sepsis), Palaeosepsis .....            | 63.2 |
| costalis (Wiedemann), 1830 (Sepsis). Sepsisia, see Megamerinidae |      |
| cubensis Bigot, 1886, Nemopoda .....                             | 63.1 |
| dentata (Becker), 1919 (Sepsis), Palaeosepsis .....              | 63.2 |
| dentatiformis (Duda), 1926 (Sepsis), Palaeosepsis .....          | 63.2 |
| discolor (Bigot), 1857 (Sepsis), Palaeosepsis .....              | 63.2 |
| ecalcarata (Thomson), 1869 (Sepsis), Palaeosepsis .....          | 63.2 |
| Enicita Westwood, 1840 .....                                     | 63.3 |
| Enicopus Walker, 1833 .....                                      | 63.3 |
| fulviceps Bigot, 1886, Nemopoda .....                            | 63.1 |
| fulvicoxalis (Bigot), 1886, (Nemopoda), Sepsis .....             | 63.3 |
| furcata (Melander & Spuler), 1917 (Sepsis), Palaeosepsis .....   | 63.2 |
| fusca (Bigot), 1886 (Enicopus), Themira .....                    | 63.3 |



|  |      |
|--|------|
| <i>haemorrhoidalis</i> (Schiner), 1868 (Sepsis), Palaeosepsis .....      | 63.3 |
| <i>hoplicnema</i> (Melander and Spuler), 1917 (Sepsis), Palaeosepsis ... | 63.2 |
| <i>incisa</i> (Becker), 1919 (Sepsis), Palaeosepsis .....                | 63.2 |
| <i>inflexa</i> (Becker), 1919 (Sepsis), Palaeosepsis .....               | 63.2 |
| <i>insularis</i> (Williston), 1896 (Sepsis), Palaeosepsis .....          | 63.2 |
| <i>lateralis</i> Macquart, 1843, Nemopoda .....                          | 63.1 |
| <i>laticornis</i> (Duda), 1926 (Sepsis), Palaeosepsis) .....             | 63.2 |
| <i>Meropliosepsis</i> Duda, 1926 .....                                   | 63.1 |
| <i>mitis</i> (Curran), 1937 (Sepsis), Palaeosepsis .....                 | 63.2 |
| <i>Nemopoda</i> Robineau-Desvoidy, 1830 .....                            | 63.1 |
| <i>Orygma</i> Meigen, 1830 — see <i>Helcomyzidae</i>                     |      |
| <i>Palaeosepsis</i> Duda, 1926 .....                                     | 63.1 |
| <i>pleuralis</i> (Coquillett), 1904 (Sepsis), Palaeosepsis) .....        | 63.3 |
| <i>pusio</i> (Schiner), 1868 (Sepsis), Palaeosepsis .....                | 63.2 |
| <i>scabra</i> (Loew), 1861 (Sepsis), Palaeosepsis .....                  | 63.2 |
| <i>Sepsis</i> Fallén, 1810 .....   | 63.3 |
| <i>Sepsisia</i> Curran, 1934 — see <i>Megamerinidae</i>                  |      |
| <i>sexsetosa</i> Duda, 1926, <i>Meropliosepsis</i> .....                 | 63.1 |
| <i>simplex</i> (Curran), 1928 (Sepsis), Palaeosepsis .....               | 63.3 |
| <i>simplicula</i> Steyskal, new name, Palaeosepsis .....                 | 63.3 |
| <i>Themira</i> Robineau-Desvoidy, 1830 .....                             | 63.3 |
| <i>umbrifer</i> Schiner, 1868, <i>Sepsis</i> .....                       | 63.3 |
| <i>xanthostoma</i> Bigot, 1886, <i>Nemopoda</i> .....                    | 63.1 |







MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(Formerly Departamento de Zoologia, Secretaria da Agricultura,  
São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

64

FAMILY SCIOMYZIDAE

LLOYD KNUTSON

*Systematic Entomology Laboratory, Insect Identification and Beneficial  
Insect Introduction Institute, Beltsville Agricultural Research Center, Agr  
Res. Serv., USDA, Beltsville, Maryland 20705, U.S.A.*

G. C. STEYSKAL

*Systematic Entomology Laboratory, Insect Identification and Beneficial  
Insect Introduction Institute, Agr. Res. Serv., USDA, c/o U.S. National  
Museum, Washington, D.C. 20560, U.S.A.*

JAN ZUSKA

*Department of Entomology, Research Institute of Food Industry, No  
belidle 21, 150 38 Prague 5, Czechoslovakia*

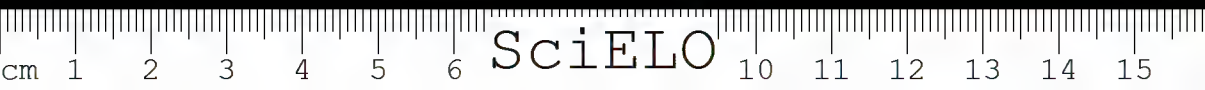
JAY ABERCROMBIE

*Medical Entomology Project, c/o Department of Entomology, Smithsonian  
Institution, Washington, D.C. 20560, U.S.A.*

About 600 species of Sciomyzidae are known, with 74 species in 23 genera described from the Americas south of the United States. The sciomyzid fauna of this area is relatively poorly known, and many new species, particularly of such genera as *Sepedonea* and *Pherbellia*, probably will be discovered, especially in the interior. The Sciomyzinae is the only subfamily of Sciomyzidae known from the Americas south of the United States.

A key to the genera of Sciomyzidae from the Americas south of the United States was presented by Steyskal & Knutson (1975). Recent papers by Kaczynski, *et al.* (1969), Steyskal (1974), and Zuska & Berg (1974) treat the taxonomy and distribution of certain genera.

Adult Sciomyzidae are distinguished from other acalyptrate Diptera by the following combination of characters: antennae porrect, oral vibrissae absent, postocellar bristles present (except *Teutonimyia*), anal vein complete to margin (except *Parectinocera*).





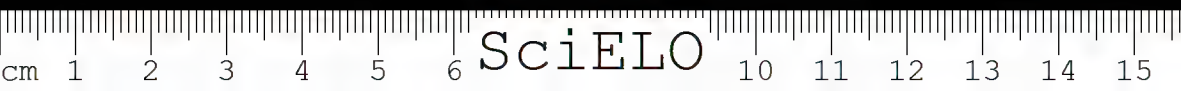
Larvae of all the approximately 200 species of Sciomyzidae reared from various parts of the world kill and feed on molluscs. The greatest number of reared species are voracious predators of most pulmonate aquatic snails occurring in many different kinds of freshwater habitats (e.g., *Sepedon*, *Sepedomerus*, and *Sepedonca*, Neff & Berg, 1966). Another large group includes species that are predatory to parasitoid or saprophagous on aquatic and semi-aquatic snails in wet or damp habitats (e.g., *Shannonia* and *Perilimnia*, Kaczynski, *et al.*, 1969). None of the Neotropical Sciomyzidae is known to have the unusual food preference of a few species reared in northern regions, i.e., snail eggs, slugs, operculate snails, and finger-nail clams (Sphaeriidae). However, 5 Neotropical genera (*Calliscia*, *Eutrichomelina*, *Euthycerina*, *Pseudomelina*, and *Tentoniomyia*) remain unknown biologically.

The morphology of the immature stages of Sciomyzidae provides a wealth of taxonomic characters. The thesis by Abercrombie (1970) (various portions now being prepared for publication) is the major source of information on the immature stages (see also papers by Neff & Berg, 1961, 1962, 1966; Kaczynski, *et al.*, 1969; Bratt, *et al.*, 1969; and Abercrombie & Berg, 1975). The larvae of all species, including aquatic predators, are air-breathers, and the posterior spiracles and spiracular discs are especially characteristic. The well-developed cephalopharyngeal skeleton also provides taxonomic characters; the presence of a pair of mouthhooks connected by a ventral bridge and the absence of oral grooves is diagnostic of the family.

A few species of Neotropical and Palearctic Sciomyzidae have been introduced into the Hawaiian Islands and other Pacific areas for biological control of snails that are intermediate hosts of disease-causing flatworms (Chock, *et al.*, 1961). The apparent absence of Sciomyzidae from certain microhabitats of such snails in the Neotropical Region indicates that the introduction of exotic species to occupy unfilled niches may provide some measure of biological control.

Sex and location of type specimens for each species are entered in brackets, before "Distribution". Abbreviations for these collections are as follows:

|      |   |
|------|---|
| AMNH | American Museum of Natural History, New York              |
| ANSP | Academy of Natural Sciences, Philadelphia                 |
| BMNH | British Museum (Natural History), London                  |
| CAS  | California Academy of Sciences, San Francisco             |
| CNC  | Canadian National Collection, Ottawa                      |
| CU   | Cornell University, Ithaca, New York                      |
| DEIB | Deutsches entomologisches Institut, Berlin                |
| IML  | Instituto Miguel Lillo, Tucumán                           |
| IOC  | Instituto Oswaldo Cruz, Rio de Janeiro                    |
| MCZ  | Museum of Comparative Zoology, Harvard University, Boston |
| MNHN | Muséum National d'Histoire Naturelle, Paris               |
| NMW  | Naturhistorisches Museum, Wien                            |
| NRS  | Naturhistoriska Riksmuseet, Stockholm                     |
| OSU  | Ohio State University, Columbus                           |
| UCS  | Universidad de Chile, Santiago                            |
| UM   | University of Michigan, Ann Arbor                         |



- USNM United States National Museum of Natural History, Washington, D.C.  
 UT Università di Torino, Turin  
 UZMC Universitetets Zoologiske Museum, Copenhagen  
 WNS Württembergische Naturaliensammlung, Staatliches Museum für Naturkunde, Stuttgart  
 ZMA Zoologisch Museum, Amsterdam  
 ZME Zoologisches Museum der Humboldt-Universität, Berlin  
 ZSBS Zoologische Sammlung des Bayerischen Staates, Schloss Nymphenburg, Munich

We thank Dr. C. O. Berg, Cornell University, and Dr. K. R. Valley, Pennsylvania Dept. Agriculture, for reviewing the manuscript and making many important comments.

### Subfamily SCIOMYZINAE

#### Tribe SCIOMYZINI

#### Genus ATRICHOMELINA Cresson

- ATRICHOMELINA Cresson, 1920: 40 (as *Achaetomaelina*, p. 30). Type-species, *Sciomyza pubera* Loew (mon.).  
 PUBERA (Loew), 1862: 106 (*Sciomyza*). Type-locality: U.S.A., "Middle States" [♂, MCZ]. Distr. — Canada (Alberta to Quebec), U.S.A. (throughout, Washington to Maine, California to Florida), Mexico (Tamaulipas, D.F., Chiapas). Refs. — Foote, *et al.*, 1960 (biol. immat. stages, distr.); Boyes, *et al.*, 1969: 333 (karyotype).  
*squalens* Wulp. 1897: 356, pl. 9, fig. 10 (*Sciomyza*). Type-locality: Mexico, Mexico City [♂ ♀, BMNH; also 1 syntype, ZMA, Wulp Coll., box n° 7]. N. SYN.

#### Genus CALLISCIA Steyskal

- CALLISCIA Steyskal, in Steyskal & Knutson, 1975: 275. Type-species, *Pherbellia callisceles* Steyskal (orig. des.).  
 CALLISCELES (Steyskal), 1963: 117, figs. 4-5 (*Pherbellia*). Type-locality: Chile, Santiago, El Tabo (33° 27' S, 71° 41' W) [♂, USNM]. Distr. — Chile (El Tabo).

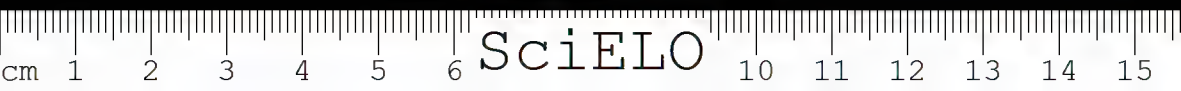
#### Genus EUTRICHOMELINA Steyskal

- EUTRICHOMELINA Steyskal, in Steyskal & Knutson, 1975: 275. Type-species *Sciomyza fulvipennis* Walker (orig. des.).  
 ALBIBASIS (Malloch), 1933: 303, textfig. 56b (*Melina*). Type-locality: Chile, Llanquihue, Casa Pangue [♀, BMNH]. Distr. — Chile (Llanquihue: Casa Pangue, Peulla). N. COMB.  
 FULVIPENNIS (Walker), 1837: 359 (*Sciomyza*). Type-locality: Chile, Straits of Magellan, Port Famine [♀, BMNH]. Distr. — Chile (Magallanes: Port Famine, Isla Piazzzi, Punta Arenas); Argentina (Rio Negro:

Bariloche). Refs. — Malloch, 1933: 305 (redescr.); Steyskal, 1966: 445 (type exam.).

### Genus PHERBELLIA Robineau-Desvoidy

- PHERBELLIA** Robineau-Desvoidy, 1830: 695. Type-species, *vernalis* Robineau-Desvoidy (mon.) = *punctata* (Fabricius).
- Melina* Robineau-Desvoidy, 1830: 695 (preocc. Retzius, 1788). Type-species, *riparia* Robineau-Desvoiry (mon.) = *dubia* (Fallén).
- Graphomyzina* Macquart, 1835: 558. Type-species, *elegans* Macquart (orig. des.) = *limbata* (Meigen).
- Notopherbellia* Malloch, 1933: 311. Type-species, *chiloensis* Malloch (mon.). *Sciomyza*, authors.
- CHILOENSIS** (Malloch), 1933: 311 (*Notopherbellia*). Type-locality: Chile, Chiloé Is., Castro [♂, BMNH]. Distr. — Chile (Llanquihue: Lago Llanquihue, Puerto Montt; Chiloé: Castro (Isla de Chiloé), Isla Mechuque; Magallanes: (Rio Tres Pasos). Ref. — Boyes, *et al.*, 1969: 337 (karyotype).
- EVITTATA** (Malloch), 1933: 305 (*Melina*). Type-locality: Chile, Llanquihue, Casa Pangue [♀, BMNH]. Distr. — Chile (Llanquihue: Casa Pangue); Argentina (Rio Negro: Bariloche). N. comb.
- griseus* Meigen, 1830. — Not Neotropical.
- GUTTATA** (Coquillett), 1901: 615 (*Sciomyza*). Type-locality: U.S.A., Texas [♀, USNM]. Distr. — U.S.A. (Texas: Austin, Cameron Co.); Mexico (Chiapas, Tamaulipas); Bahamas; Jamaica (St. Anns); Colombia (Valle del Cauca: Palmira); Peru (Loreto: San Antonio).
- GUTTIPENNIS** (Hendel), 1932: 101 (*Graphomyzina*). Type-locality: Argentina, San José [♀, WNS]. Distr. — Argentina (San José).
- NANA** (Fallén), 1820: 15 (*Sciomyza*). Type-locality: Sweden, Esperöd [♂ ♀, NRS]. Distr. — Europe, throughout Canada and U.S.A., Mexico (Baja California, Tamaulipas, D.F.). Refs. — Boyes, *et al.*, 1969: 337 (karyotype); Bratt, *et al.*, 1969: 70 (biol., immat. stages, distr.).
- transducta* Walker, 1861: 320 (*Sciomyza*). Type-locality: "U.S.A." [?, BMNH].
- PARALLELA** (Walker), 1852: 401 (*Sciomyza*). Type-locality: "N. Amer." [♂, BMNH]. Distr. — Throughout southern Canada, U.S.A., Mexico and Costa Rica (San José). Refs. — Steyskal, 1963: 122, figs. 6-8 (♂ genitalia); Boyes, *et al.*, 1969: 333 (karyotype); Bratt, *et al.*, 1969: 35 (biol., immat. stages, distr.).
- humilis* Loew, 1876: 330 (*Sciomyza*). Type-locality: U.S.A., Texas [♂ ♀, MCZ]. N. syn.
- serena* Wulp, 1897: 356 (*Sciomyza*). Type-locality: Mexico, Vera Cruz and Mexico City [♂ ♀, BMNH; no syntype in ZMA]. N. syn.
- PATAGONENSIS** (Macquart), 1851: 251 (= 277) (*Sciomyza*). Type-locality: "Patagonie" [Carmen de Patagones, Rio Negro, Argentina] [♂, MNHN]. Distr. — Peru (Cartario, Lima); Brazil (Espírito Santo: Baixo Guandu; Rio Grande do Sul: Pelotas); Argentina (Rio Negro: La Rioja: Patquia, Chosquín); Uruguay (Montevideo).



- Refs. — Steyskal, 1963: 122, fig. 10 (♂ genitalia); Boyes, *et al.*, 1969: 333 (karyotype).
- lathraea* Steyskal, 1963: 73, fig. 1. Type-locality: Argentina, La Rioja, Patquia [♂, IML]. N. SYN.
- PHILIPPI (Malloch), 1933: 306 (*Melina*). Type-locality: Chile, Santiago [♀, USNM]. Distr. — Chile (Santiago). N. COMB.
- FRABECULATA (Loew), 1872: 100 (Cent. 10, n° 81) (*Sciomyza*). Type-locality: U.S.A., Texas [♂, MCZ]. Distr. — U.S.A. (southern California and southern Utah southeastward to Texas); Mexico (Baja California, Tamaulipas, D.F., Oaxaca); Guatemala (Amatitlán). Refs. — Boyes, *et al.*, 1969: 337 (karyotype); Bratt, *et al.*, 1969: 55 (biol. immat. stages, distr.).
- strigata* Wulp. 1897: 355. pl. 9, fig. 9 (*Sciomyza*). Tpe-locality: Mexico, Mexico City and Vera Cruz [♂ ♀, BMNH].
- VITTIGERA (Malloch), 1933: 306 (*Melina*). Type-locality: Chile, Llanquihue, Casa Pangué [♂, BMNH]. Distr. — Chile (Llanquihue). N. COMB.

### Genus PARECTINOCERA Becker

- PARECTINOCERA Becker, 1919: 188. Type-species, *neotropica* Becker (mon.).
- Dichrochirosa* Malloch, 1933: 308. Type-species, *inaequalis* Malloch (orig. des.).
- DISSIMILIS (Malloch), 1933: 310 (*Dichrochirosa*). Type-locality: Argentina, Buenos Aires [♀, BMNH]. Distr. — Argentina (Buenos Aires; Santa Cruz: Rio Coig). Ref. — Boyes, *et al.*, 1969: 338 (karyotype). N. COMB.
- INAEQUALIS (Malloch), 1933: 309 (*Dichrochirosa*). Type-locality: Argentina, Rio Negro, L. Nahuel Huapi (eastern end) [♂ ♀, BMNH]. Distr. — Chile (Llanquihue: Casa Pangué, Peulla, Puerto Varas, Angol); Ecuador (Azuay); Argentina (Rio Negro: L. Nahuel Huapi, Bariloche, L. Correntoso). N. COMB.
- NEOTROPICA Becker, 1919: 189. Type-locality: Ecuador, Alausi, 2390 m [♂ ♀, MNHN]. Distr. — Ecuador (Alausi).

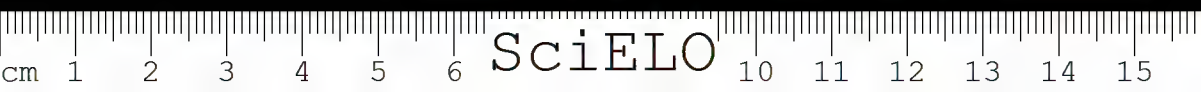
### Genus PSEUDOMELINA Malloch

- PSEUDOMELINA Malloch, 1933: 307. Type-species, *apicalis* Malloch (orig. des.).
- APICALIS Malloch, 1933: 307. Type-locality: Chile, Llanquihue, Puerto Montt. [♂, BMNH]. Distr. — Chile (Llanquihue).

### Tribe TETANOCERINI

#### Genus ANTICHAETA Haliday

- Sciomyza*, subg. ANTICHAETA Haliday, 1838: 187. Type-species, *Tetanocera vittata* Haliday (orig. des.) =  *analis* (Meigen).
- Heteropteryx* Hendel, 1902: 81 (preocc. Gray, 1835). Type-species, *Sciomyza brevipennis* Zetterstedt (mon.).
- Hemitelopteryx* Cresson, 1920: 51 (nom. nov. for *Heteropteryx* Hendel). Type-species, *Sciomyza brevipennis* Zetterstedt (aut.).





*Lioya* Enderlein, 1939: 205. Type-species, *Sciomyza atriseta* Loew (mon.).  
Sp. undescribed: Michoacán, Mexico (*teste* K. R. Valley).

### Genus DICTYA Meigen

DICTYA Meigen, 1803: 277. Type-species, *Musca umbrarum* L. (traditional type pending submission of proposal to I.C.Z.N. for fixation of type-species).

*Monochaetophora* Hendel, 1900: 355. Type-species, *Musca umbrarum* L. (mon.).

ABNORMIS Steyskal, 1954: 518, fig. 4. Type-locality: Mexico, Chihuahua, Sierra Madre, head of R. Piedras Verdes, about 2,225 m [ $\delta$ , USNM]. Distr. — Mexico (Chihuahua, Durango, Oaxaca). Ref. — Steyskal, 1960: 36, fig. 6 (*descr.*  $\varnothing$ ).

GUATEMALANA Steyskal, 1954: 520, fig. 5. Type-locality: Guatemala, "Guatemalan forest" [ $\delta$ , USNM]. Distr. — Guatemala, Costa Rica (San José).

INCISA Curran, 1932: 6, fig. 111. Type-locality: U.S.A., Arizona, G. Zuni River [ $\delta$ , ?]. Distr. — U.S.A. (Washington to w. Kansas, s. to California and New Mexico); Mexico (Nuevo León: Villa de García). Refs. — Steyskal, 1954: 530, figs. 26, 37 (*redescr.*;  $\delta$   $\varnothing$  genitalia); Valley, 1974 (*biol.*, *immat.* stages, *distr.*).

INSULARIS Steyskal, 1954: 520, figs. 6, 9. Type-locality: Puerto Rico, San Juan, Santurce, Faxon Mills [ $\delta$ , USNM]. Distr. — Puerto Rico (San Juan, Gurabo); Jamaica (St. Catherine).

*lobifera* Curran, 1932. — Not Neotropical.

MATTHEWSI Steyskal, 1960: 36, figs. 4, 7, 8. Type-locality: Mexico, Chiapas, Las Cruces (near Cintalapa) [ $\delta$ , CU]. Distr. — U.S.A. (Arizona: Bill Williams); Mexico (Morelos, Jalisco, Oaxaca, Chiapas). Ref. — Valley, 1974 (*biol.*, *immat.* stages, *distr.*).

MEXICANA Steyskal, 1954: 534, figs. 28, 36. Type-locality: Mexico, Tamaulipas, Hacienda Santa Engracia (vic. Ciudad Victoria) [ $\delta$ , CAS]. Distr. — U.S.A. (Texas: Jefferson Co., 17 mi. w. Sabino Pass); Mexico (Tamaulipas: Tampico, Hacienda Santa Engracia).

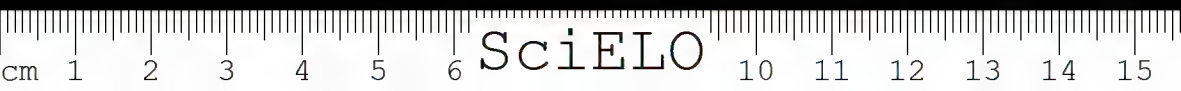
NEFFI Steyskal, 1960: 38, figs. 11-12. Type-locality: Guatemala, Patzún, Chimaltenango, Ruta Nac. 1, km 90 [ $\delta$ , CU]. Distr. — Mexico (Chiapas, San Luis Potosí); Guatemala (Guatemala City, Patzún).

*pictipes* (Loew), 1858. — Not Neotropical.

SABROSKYI Steyskal, 1938: 8, pl. 2, figs. 1-2. Type-locality: U.S.A., Kansas, Manhattan [ $\delta$ , USNM]. Distr. — U.S.A. (South Dakota to Michigan, s. to Louisiana and Texas); Mexico (Tamaulipas, Chiapas: San Cristóbal de las Casas). Refs. — Steyskal, 1954: 536, figs. 21, 36 ( $\delta$   $\varnothing$  genitalia); Boyes, *et al.*, 1969: 338 (*karyotype*); Valley, 1974 (*biol.*, *immat.* stages, *distr.*).

*sabroskii* Steyskal of Jaques, 1939, error.

TEXENSIS Curran, 1932: 6, figs. 7-8. Type-locality: U.S.A., Texas, Austin [ $\delta$ , AMNH]. Distr. — U.S.A. (Idaho and South Dakota to New Jersey, s. to South Carolina, Texas, Arizona and California); Mexico (Tamaulipas: nr. Mier and Reynosa). Refs. — Steyskal.



1954: 527, figs. 3a, 25 (♂ ♀ genitalia); Valley, 1974 (biol., immat. stages, distr.).  
*umbrarum* (Linnaeus), 1758. — Not Neotropical.

### Genus DICTYODES Malloch

*Retellia* Robineau-Desvoidy, 1830: 683. Type-species, *claropunctata* Robineau-Desvoidy (mon.) = *dictyodes* (Wiedemann). Although this name has priority, we prefer to maintain *Dictyodes* as the valid name, in the interests of stability.

DICTYODES Malloch, 1933: 321. Type-species, *Tetanocera dictyodes* Wiedemann (orig. des.).

DICTYODES (Wiedemann), 1830: 583 (*Tetanocera*). Type-locality: Brazil, Rio de Janeiro [♀, ?ZMW]. Distr. — Bolivia (Cochabamba); Brasil (Rio de Janeiro to Rio Grande do Sul); Argentina (Buenos Aires). Refs. — Boyes, *et al.*, 1969: 341 (karyotype); Abercrombie, 1970 (biol., immat. stages, distr.).

*claropunctata* Robineau-Desvoidy, 1830: 683 (*Retellia*). Type-locality: Brazil, "de l'intérieur du Brésil" [?, lost].

PLATENSIS Steyskal, 1974: 429. Type-locality: Uruguay, Montevideo [♂, USNM]. Distr. — Uruguay (Montevideo); Argentina (Buenos Aires, Tandil).

### Genus EUTHYCERA Latreille

EUTHYCERA Latreille, 1829: 529. Type-species, *Musca chaerophylli* Fabricius (mon.).

*Lunigera* Hendel, 1900: 344. Type-species, *chaerophylli* Fabricius (mon.).

MIRA Knutson & Zuska, 1968: 81, fig. 5. Type-locality: Mexico, Durango, 10.5 km sw El Salto, 2,438 m. [♂, CNC]. Distr. — Mexico (El Salto).

### Genus EUTHYCERINA Malloch

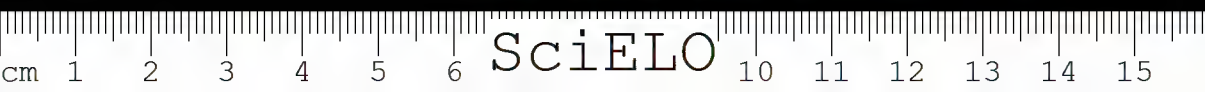
EUTHYCERINA Malloch, 1933: 321. Type-species, *vittithorax* Malloch (orig. des.).

PILOSA Malloch, 1933: 323, textfig. 57m. Type-locality: Chile, Llanquihue, Puerto Montt [lectotype ♂, BMNH]. Distr. — Chile (Llanquihue: Puerto Montt, Peulla, Ensenada; Santiago: Santiago; Chiloé: Ancud, Castro).

VITTITHORAX Malloch, 1933: 322, textfig. 57k-l. Type-locality: Argentina, Rio Negro, Bariloche [♂, EMNH]. Distr. — Chile (Llanquihue: Casa Pangué, Ensenada; Chiloé: Ancud, Puntra); Argentina (Rio Negro: Bariloche, L. Nahuel Huapi, Puerto Sabino, L. Correntoso, Puerto Blest).

### Genus GUATEMALIA Steyskal

GUATEMALIA Steyskal, 1960: 33. Type-species, *hubbelli* Steyskal (orig. des.) = *straminata* (Wulp).



STEAMINATA (Wulp), 1897: 357, pl. 9, fig. 11 (*Tetanocera*). Type-locality: Mexico, Guerrero, Amula, 1829 m [♂ ♀, BMNH]. Distr. — Mexico (Guerrero); Guatemala (Panajachel, Sololá). Ref. — Steyskal, 1966: 448 (type exam.).

*hubbelli* Steyskal, 1960: 33, figs. 1-4. Type-locality: Guatemala, Panajachel, Sololá, 1560 m [♂, UM].

#### Genus HOPLODICTYA Cresson

HOPLODICTYA Cresson, 1920: 67. Type-species, *Tetanocera setosa* Coquillett (orig. des.).

*acuticornis* (Wulp), 1897. — Not Neotropical. Ref. — Fisher & Orth, 1972b: 178.

AUSTRALIS Fisher & Orth, 1972b: 174, figs. 1, 2, 9. Type-locality: U.S.A., Florida, Monroe Co., Everglades National Park, Flamingo [♂, USNM]. Distr. — U.S.A. (Georgia, Florida, Mississippi, Louisiana, Texas); Bahamas (Andros Town); Cuba (Havana).

SPINICORNIS (Loew), 1866: 181 (Cent. 6, n° 86) (*Tetanocera*). Type-locality: "Cuba" [♀, MCZ]. Distr. — U.S.A. (New Jersey, Delaware, Maryland, D.C., Georgia, Florida, Mississippi, Louisiana, Texas); Mexico (Michoacán, Oaxaca, Lomatán, Puebla); Guatemala (Totonicapán, Cobán); Cuba; Jamaica (Portland). Refs. — Neff & Berg, 1962 (biol., immat. stages, distr.); Boyes *et al.*, 1969: 341 (karyotype); Fisher & Orth, 1972b: 176, figs. 3, 4, 111, 14 (redescr., ♂ ♀ genitalia; type exam., distr.).

#### Genus PERILIMNIA Becker

PERILIMNIA Becker, 1919: 189. Type-species, *albifacies* Becker (mon.).

*Notosciomyza* Malloch, 1933: 313. Type-species, *dubia* Malloch (orig. des.). = *albifacies* Becker.

ALBIFACIES Becker, 1919: 189. Type-locality: Ecuador, Cuenca [♂ ♀, MNHN]. Distr. — Colombia (Cundinamarca, Putumayo); Ecuador (Azuay, El Oro, Pichincha); Peru (Cusco); Bolivia (La Paz); Brazil (Rio Grande do Sul); Uruguay (Montevideo); Argentina (Tucumán, Jujuy, Corrientes, Córdoba, Mendoza, Buenos Aires, Rio Negro, Chubut, Santa Cruz, La Rioja); Chile (Valparaíso, Malleco, Atacama, Coquimbo, Aconcagua, Santiago, Maule, Concepción, Osorno, Llanquihue, Aysén, Magallanes). Refs. — Steyskal, 1953: 75; 1963: 123; Boyes, *et al.*, 1969: 338 (karyotype); Kaczynski, *et al.*, 1969: figs. 1, 2, 6, 11-19, 29-34, 41-48 (♂ genitalia, biol., immat. stages, distr.).

*dubia* Malloch, 1933: 313, textfigs. 56a, 57a-b (*Notosciomyza*). Type-locality: Argentina, L. Nahuel Huapi, eastern end [♀, BMNH].

ZINERITIA Zuska, in Kaczynski, *et al.*, 1969: 576, figs. 3, 7. Type-locality: Chile, Antofagasta, Múcar, 4000 m [♂, CNC]. Distr. — Chile (Antofagasta).

#### Genus PROTODICTYA Malloch

PROTODICTYA Malloch, 1933: 319. Type-species, *chilensis* Malloch (orig. des.).

- APICALIS Steyskal, 1950: 37. Type-locality: Brazil, Minas Gerais, Juiz de Fora, Salvaterra [♂, IOC]. Distr. — Brazil (Minas Gerais, São Paulo, Paraná). Ref. — Abercrombie, 1970 (biol., immat. stages, distr.).
- BRASILIENSIS (Schiner), 1868: 235 (*Sepedon*). Type-locality: "Brazil" [♂ ♀, NMW]. Distr. — Brail (Rio de Janeiro). Ref. — Steyskal, 1950: 38, fig. 2 (redescr., ♂ genitalia).
- CHILENSIS Malloch, 1933: 319, textfigs. 56c, 57e-g. Type-locality: Chile, Llanquihue, Peulla [♂, BMNH]. Distr. — Chile (Atacama to Llanquihue); Argentina (Rio Negro, Chubut). Refs. — Steyskal, 1950: 34 (in key); Abercrombie, 1970 (biol., immat. stages, distr.).
- gutturalis* Wiedemann of Brèthes, 1925: 208, error, misident.
- GUTTULARIS (Wiedemann), 1830: 584 (*Tetanocera*). Type-locality: Uruguay, Montevideo [?, ZMB]. Distr. — Bolivia (Cochabamba); Brazil (São Paulo to Rio Grande do Sul); Uruguay (Montevideo); Argentina (Catamarca to Corrientes, s. to Buenos Aires). Ref. — Malloch, 1933: 317, textfigs. 57h-j (♂ genitalia); Steyskal, 1950: 34 (in key); 1966: 446 (type exam.); Eoyes, *et al.*, 1969: 341 (karyotype); Abercrombie, 1970 (biol., immat. stages, distr.).
- angulifera* Walker, 1849: 1085 (*Tetanocera*). Type-locality: Uruguay, Montevideo [♀, BMNH]. Ref. — Steyskal, 1966: 446 (type exam.).
- gutturalis* Wiedemann of Brèthes, 1907: 300, error.
- IGUASSU Steyskal, 1950: 38. Type-locality: Brazil, Paraná, Iguazu [♂, IOC]. Distr. — Brazil (Paraná: Iguazu; Santa Catarina: Nova Teutônia); Argentina (Misiones: Iguazú; Buenos Aires: Campana, Delta del Paraná).
- LILLOANA Steyskal, 1953: 74, fig. 2. Type-locality: Argentina, Formosa, Pirané [♂, IML]. Distr. — Brazil (Paraná, Rio Grande do Sul); Argentina (Formosa, Tucumán, Chaco, Misiones, Corrientes, Salta, Buenos Aires); Paraguay (Guaira). Ref. — Abercrombie, 1970 (biol., immat. stages, distr.).
- NUBILIPENNIS (Wulp), 1897: 360, pl. 9, fig. 14 (*Sepedon*). Type-locality: Mexico, Sinalca, Presidio de Mazatlán; Veracruz: Atoyac [♂ ♀, BMNH]. Distr. — Mexico; Guatemala; Honduras; Nicaragua; Costa Rica, Panama. Refs. — Steyskal, 1950: 39 (type exam.); Neff & Berg, 1961 (biol., immat. stages, distr.).
- hondurana* Steyskal, 1950: 35, fig. 1. Type-locality: Honduras, Pt. Cortés [♂, OSU].

#### Genus SEPEDOMERUS Steyskal

- SEPEDOMERUS Steyskal, 1973: 144. Type-species, *Sepedon macropus* Walker (orig. des.).
- BIPUNCTICEPS (Malloch), 1933: 299, textfig. 55a (*Sepedon*). Type-locality: Argentina, Buenos Aires, La Plata City [♀, BMNH]. Distr. — Panama (Panamá); Colombia (Valle del Cauca, Morga, Cali); Brazil (Acre, Goiás, Minas Gerais, Paraná, Rio Grande do Sul); Paraguay (Villarrica, Guaira); Uruguay (Montevideo, Colón); Argentina (D.F., Chaco, Buenos Aires, La Plata, Catamarca).



- spp. *TRINIDADENSIS* (Steyskal), 1951: 277, pl. 5, fig. 27 (*Sepedon*). Type-locality: Trinidad, Port of Spain [♂, USNM]. Distr. — Trinidad (Port of Spain).
- CAERULEUS* (Melander), 1920: 332 (*Sepedon*). Type-locality: Haiti [♂, USNM]. Distr. — Haiti; Dominican Republic; Puerto Rico. Refs. — Steyskal, 1951: 276, pl. 5, fig. 25 (♂ hind femur and tibia); Neff & Berg, 1966 (biol., immat. stages, distr.).
- MACROPUS* (Walker), 1849: 1078, textfig. 556 (*Sepedon*). Type-locality: Jamaica [♂, BMNH]. Distr. — U.S.A. (Texas); Cuba; Jamaica; Puerto Rico; Trinidad; Mexico; Guatemala; Honduras; Nicaragua; Costa Rica; Panama; Colombia; Ecuador; Peru. Refs. — Malloch, 1914: 323 (synonymy); Steyskal, 1951: 276, pl. 5, fig. 24 (♂ hind femur and tibia); Chock, *et al.*, 1961 (biol. control); Neff & Berg, 1966 (biol., immat. stages, distr.); Boyes, *et al.*, 1969: 344 (karyotype).
- nigriventris* Wulp, 1897: 359 (*Sepedon*). Type-locality: Mexico, Vera Cruz [♀, BMNH].

### Genus *SEPEDON* Latreille

- SEPEDON* Latreille, 1804: 196. Type-species, *Syrphus sphegeus* Fabricius (mon.).
- ARMIPES* Loew, 1859: 298. Type-locality: U.S.A., "Middle States" [♂, MCZ]. Distr. — U.S.A. (Idaho, Utah, and Arizona eastward); Mexico, (Tamaulipas, Nuevo León, Imuris, Sonen). Refs. — Steyskal, 1951: 279, pl. 1, fig. 1 (♂ genitalia, hind femur and tibia); Neff & Berg, 1966 (biol., immat. stages, distr.); Boyes, *et al.*, 1969: 344 (karyotype); Fisher & Orth, 1969: figs. 2, 3, 8, 12 (♂ ♀ genitalia, distr.).
- PACIFICA* Cresson, 1914: 457. Type-locality: U.S.A., California, Marin Co., Redwood Canyon [♂, ANSP]. Distr. — U.S.A. (North Dakota and Iowa w. to Pacific Coast); Mexico (n. Baja California del Norte). Ref. — Fisher & Orth, 1972a: figs. 7-12 (♂ genitalia, distr., type exam.).
- PRAEMIOSA* Giglio-Tos, 1893: 8. Type-locality: Mexico, Morelia [♂, box n° 28, UT]. Distr. — U.S.A. (Nebraska, Kansas, Colorado, Utah, Arizona, New Mexico); Mexico (central highlands s. to Oaxaca). Refs. — Steyskal, 1951: 278, pl. 3, fig. 13, pl. 5, fig. 26 (♂ genitalia, stages, distr.); Fisher & Orth, 1972a: figs. 1-6 (♂ genitalia, biol., distr.).
- RELICTA* Wulp, 1897: 359. Type-locality: Mexico, Mexico City [♀, BMNH]. Distr. — Mexico (D.F., Hidalgo, Michoacán). Refs. — Steyskal 1951; Neff & Berg, 1966 (biol., immat. stages, distr.); Fisher & Orth, 1972a (type exam.).
- haplobasis* Steyskal, 1960: 42 figs. 15-18. Type-locality: Mexico, D.F., Ruta 190, km 15 [♂, CU].

### Genus *SEPEDONEA* Steyskal

- SEPEDONEA* Steyskal, 1973: 145. Type-species, *Sepedon lindneri* Hendel (orig. des.).

- GUATEMALANA (Steyskal), 1951: 293, pl. 4, fig. 19, pl. 5, figs. 21-22 (*Sepedon*). Type-locality: Guatemala, Los Amates [ $\delta$ , OSU]. Distr. — Mexico (Chiapas); Guatemala (Los Amates, Santa Rosa); Nicaragua (Chinandega); Costa Rica (San Antonio-Desamparados). Ref. — Neff & Berg, 1966 (biol., immat. stages, distr.).
- GUIANICA (Steyskal), 1951: 295, pl. 4, fig. 18 (*Sepedon*). Type-locality: "Guyane" (French Guiana), Maroni, Comoro Is. [= Comoro Is., Maroni R.] [ $\delta$ , BMNH]. Distr. — Colombia (Valle); Venezuela (Cojedes); French Guiana (Maroni R.); Surinam (Paramaribo).
- ISTHMI (Steyskal), 1951: 291, pl. 4, fig. 20 (*Sepedon*). Type-locality: Panama, Canal Zone, Corozal [ $\delta$ , USNM]. Distr. — Panama (Canal Zone: Corozal, Juan Mina); Trinidad (Caroni River, Port-of-Spain); Venezuela (Aragua, Cojedes, Carabobo); Colombia (Valle); Bolivia (Rurrenabaque); Brazil (Amazonas, Goiás, São Paulo).
- LAGOA (Steyskal), 1951: 293, pl. 4, fig. 17 (*Sepedon*). Type-locality: Brazil, Minas Gerais, Lagoa Santa [ $\delta$ , IOC]. Distr. — Costa Rica (San José); Brazil (Amazonas, Minas Gerais, São Paulo); Paraguay (Guairá). Ref. — Abercrombie, 1970 (biol., immat. stages, distr.).
- LINDNERI (Hendel), 1932: 99 (*Sepedon*). Type-locality: Argentina, San José and Tapiokiló; Paraguay: Trinidad near Asunción [ $\delta$  ♀, WNS]. Distr. — Brazil (Rio Grande do Sul); Paraguay (Cordillera: San Bernardino, Trinidad near Asunción); Argentina (Formosa, Catamarca, Tucumán, Chaco, La Rioja, Santa Fé, Buenos Aires). Refs. — Steyskal, 1951: 291, pl. 4, fig. 15 ( $\delta$  genitalia); Abercrombie, 1970 (biol., immat. stages, distr.).
- TELSON (Steyskal), 1951: 291, pl. 4, figs. 16, 16a (*Sepedon*). Type-locality: Brazil, Minas Gerais, Juiz de Fora [ $\delta$ , IOC]. Distr. — Brazil (D.F., Minas Gerais, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul). Ref. — Abercrombie, 1970 (biol., immat. stages, distr.).

#### Genus SHANNONIA Malloch

- SHANNONIA Malloch, 1933: 312. Type-species, *Tetanocera costalis* Walker (orig. des.).
- COSTALIS (Walker), 1837: 359 (*Tetanocera*). Type-locality: Chile, Magallanes, Port Famine [?, BMNH]. Distr. — Chile (Magallanes: El Ganso, Puerto Williams, Port Famine, Ultima Esperanza). Refs. — Steyskal, 1966: 446 (type examen.); Kaczynski, *et al.*, 1969: 577, figs. 4, 8 ( $\delta$  genitalia, redescri., distr.).
- MERIDIONALIS Zuska, in Kaczynski, *et al.*, 1969: 577, figs. 5, 9, 20-28, 35-40, 49-56. Type-locality: Chile, Santiago, 4 km w. of Baños Morales [ $\delta$ , CU]. Distr. — Chile (Juan Fernández Is., Atacama to Aysén); Argentina (Rio Negro, Chubut, Santa Cruz). Ref. — Kaczynski, *et al.*, 1969 (biol., immat. stages, distr.).

#### Genus TETANOCERA Duméril

- TETANOCERA Duméril, 1800: 439 (as *Tétanocère*). Type-species, *Musca elata* Fabricius (Westwood, 1840).

- PLUMOSA Loew, 1847: 201. Type-locality: U.S.A., Alaska, Sitka [♀, MCZ].  
Distr. — Alaska to Newfoundland, s. to Nevada, New Mexico and North Carolina; Mexico (Durango: Ciudad). Refs. — Steyskal, 1959: figs. 7-8, 32 (♂ genitalia); Foote, 1961 (biol., immat. stages); Boyes, *et al.*, 1969: 343 (karyotype).
- plumifera* Wulp, 1897: 359 (*Tetanocera*). Type-locality: Mexico, Durango, Ciudad, 2469 m [♂, BMNH]. Ref. — Steyskal, 1966: 448 (type exam.).
- SPRETA Wulp, 1897: 358. Type-locality: Mexico: Jalisco and Mexico City [♂ ♀, BMNH]. Distr. — Mexico (D.F., Jalisco, Michoacán). Ref. — Steyskal, 1959: 68, fig. 9 (♂ genitalia); Foote, 1961 (biol., immat. stages); Steyskal, 1966: 448 (type exam.).

### Genus TETANOCEROIDES Malloch

- TETANOCEROIDES Malloch, 1933: 315. Type-species, *mesopleuralis* Malloch (orig. des.).
- EISETOSUS (Thomson), 1869: 570 (*Tetanocera*). Type-locality: Uruguay, Montevideo [♀, NRS]. Distr. — Chile (Atacama, Coquimbo, Santiago, Valdivia, Osorno, Llanquihue, Aisén, Magallanes, including Tierra del Fuego); Argentina (D.F., Buenos Aires, Rio Negro, Chubut, Santa Cruz). Refs. — Boyes, *et al.*, 1969: 344 (karyotype); Abercrombie, 1970 (biol., immat. stages, distr.); Zuska & Berg, 1974: figs. 8, 18, 23, 27, 40, 46, 60 (♂ ♀ genitalia, color variation).
- occidentalis* Wulp, 1883: 48, pl. 2, fig. 9 (*Ectinocera*). Type-locality: "Argentina" [♂, lost?].
- DENTIFER Zuska, in Zuska & Berg, 1974: 336, figs. 10, 16, 22, 32, 33, 44, 52, 55, 62. Type-locality: Argentina, Santa Cruz, s. of Lago Buenos Aires [♂, CU]. Distr. — Chile (Arauco, Malleco, Aisén, Magallanes); Argentina (Chubut, Santa Cruz). Ref. — Abercrombie, 1970 (biol., immat. stages, distr.).
- FULVITHORAX Malloch, 1923: 318, textfigs. 57c-d. Type-locality: Chile, Llanquihue, Casa Pangué [♂, BMNH]. Distr. — Chile (Valdivia to Osorno, Chiloé); Argentina (Rio Negro). Refs. — Abercrombie, 1970 (biol., immat. stages, distr.); Zuska & Berg, 1974: figs. 1-2, 9, 13, 24, 28, 37, 43, 48, 50, 54, 57, 59 (♂ ♀ genitalia, color variation).
- MENDICUS Zuska, in Zuska & Berg, 1974: 34, figs. 6, 14, 19, 31, 35, 42, 49, 51. Type-locality: Chile, Santiago, 15 km n. of Santiago [♂, CU]. Distr. — Chile (Coquimbo, Aconcagua, Santiago, Valparaíso, Curicó, Concepción, Bio-Bio, Malleco, Valdivia); Argentina (Buenos Aires). Ref. — Abercrombie, 1970 (biol., immat. stages, distr.).
- MESOPLEURALIS Malloch, 1933: 316. Type-locality: Chile, Llanquihue, Peulla [♂, EMNH]. Distr. — Chile (Llanquihue). Ref. — Zuska & Berg, 1974: figs. 5, 15, 20, 30, 34, 55 (♂ genitalia, distr.).
- PATAGONICUS (Thomson), 1869: 571 (*Tetanocera*). Type-locality: Argentina, "Patagonia" [♂, NRS]. Distr. — Chile (Santiago s. to Tierra del Fuego); Argentina (Rio Negro). Refs. — Abercrombie, 1970 (biol., immat. stages, distr.); Zuska & Berg, 1974: figs. 7, 17, 21, 29, 36, 41, 45, 56, 58, 63, 64 (♂ ♀ genitalia, color variation, distr.).

SIMPLEX Zuska, in Zuska & Berg., 1974: 347, figs. 3-4, 11-12, 25-26, 38-39, 47, 56. Type-locality: Chile, Osorno, ne. shore of Lago Llanquihue [♂, CU]. Distr. — Chile (Concepción to Chiloé). Ref. — Abercrombie, 1970 (biol., immat. stages, distr.).

### Genus TEUTONIOMYIA Hennig

TEUTONIOMYIA Hennig, 1952: 609. Type-species, *plaumanni* Hennig (mon.).

COSTARICENSIS Steyskal, 1960: 43. Type-locality: Costa Rica, Farm La Caja. 8 km w. of San José [♀, USNM]. Distr. — Costa Rica (Farm La Caja).

PLAUMANNI Hennig, 1952: 611: figs. 10-15. Type-locality: Brazil, Santa Catarina, Nova Teutônia [♀, DEIB]. Distr. — Brazil (Santa Catarina).

### Genus THECOMYIA Perty

THECOMYIA Perty, 1833: 189. Type-species, *longicornis* Perty (mon.).

LATERALIS (Walker), 1858: 221 (*Tetanocera*). Type-locality: "Valley of the Amazon" [♂, BMNH]. Distr. — Venezuela (Jusepin, Monagas); Guyana; Brazil (Amazonia). Ref. — Steyskal, 1966: 447 (type exam.).

LIMBATA (Wiedemann), 1819: 54 (*Tetanocera*). Type-locality: "Brazil" [♂, ZMB]. Distr. — Brazil (Rio Grande do Norte, Paraíba, D.F., Mato Grosso, Rio de Janeiro, São Paulo, Paraná, Santa Catarina). Ref. — Abercrombie & Berg (in press: biol., immat. stages, distr.).

LONGICORNIS Perty, 1833: 189, pl. 37, fig. 13. Type-locality: "Amazonum Flumen" [?, ZSES]. Distr. — Surinam (Cottica R.); Guyana (Kartabo, Kaieteur); Brazil (Pará, Paraná). Ref. — Curran, 1934: 458 (distr.).

TRILINEATA Hendel, 1932: 98. Type-locality: Bolivia, Pozo del Tigre [♂, WNS]. Distr. — Bolivia (Pozo del Tigre); Brazil (São Paulo: Barra Mansa and Araçatuba: Córrego Azul).

### Unplaced species

ANNULATA Macquart, 1843: 335 (= 178), pl. 24, fig. 3 (*Sepedon*). Type-locality: French Guiana, Cayenne [♂, n° 1887, MNHN, lost]. Ref. — Steyskal, 1951: 272.

ARMILLATA Rondani, 1868: 28 (*Sciomyza*). Type-locality: Argentina, Buenos Aires [?, ?].

CAYENNENSIS Robineau-Desvoidy, 1830: 689 (*Pherbina*). Type-locality: French Guiana, Cayenne [?, lost]. Ref. — Steyskal, 1974: 429.

EXTERNA Fabricius, 1805: 328 (*Dictya*). Type-locality: "America meridionali" [?, UZMC].

FULVESCENS Blanchard, 1852: 448 (*Sciomyza*). Type-locality: Chile, Coquimbo [?, MNHN].



- GUERINI Robineau-Desvoidy, 1830: 695 (*Dictya*). Type-locality: French Guiana, Cayenne [?, lost].
- LACERA Wiedemann, 1830: 585 (*Tetanocera*). Type-locality: Brazil, Rio de Janeiro [♀, ZMB].
- LIMBIPENNIS Macquart, 1846: 333 (= 205) (*Sciomyza*). Type-locality: Colombia ! ♂, n° 1915, MNHN, lost].
- MELANASPIS Wiedemann, 1830: 575 (*Sciomyza*). Type-locality: "Brazil" [?, lost?].
- NIGRIPES Blanchard, 1852: 449 (*Sciomyza*). Type-locality: Chile, Coquimbo [?, MNHN].

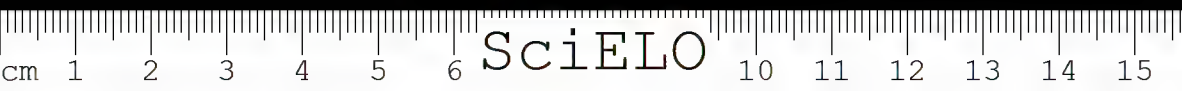
#### SPECIES TRANSFERRED TO OTHER FAMILIES

- atomaria* Fabricius, 1805: 329 (*Dictya*) (= unplaced species of Tephritidae; Foote, 1967).
- bicolor* Walker, 1837: 358 (*Sciomyza*) (= *Heloparia bicolor* (Walker), Pallopteridae; Malloch, 1933: 339).
- bispinosa* Fabricius, 1805: 210 (*Scatophaga*) (= *Beckeriella bispinosa* (Fabricius), Ephydriidae; Wirth, 1968).
- cancellaria* Fabricius, 1805: 329 (*Dictya*) (= *Ropalomera clavipes* (Fabricius), Ropalomeridae; Steyskal, 1967).
- cornuta* Walker, 1856: 401 (*Tetanocera*) (= *Loroxus cornutus* (Walker), Neriidae, N. comb.).
- corollae* Fabricius, 1805: 331 (*Dictya*) (= *Sapromyza corollae* (Fabricius), Lauxaniidae; Wiedemann, 1830).
- fascialis* Wiedemann, 1830: 576 (*Sciomyza*) (= unplaced species of Lauxaniidae, near *Physegenua vittata* Macquart; Hendel, 1902).
- femorata* Fabricius, 1805: 326 (*Dictya*) (= *Ropalomera femorata* (Fabricius), Ropalomeridae; Steyskal, 1967).
- geminata* Fabricius, 1805: 331 (*Dictya*) (= *Sapromyza geminata* (Fabricius), Lauxaniidae; Wiedemann, 1830).
- infusata* Wulp, 1897: 355 (*Sciomyza*) (= *Pseudogriphoneria infusata* (Wulp) Lauxaniidae).
- obscuripennis* Bigot, 1857: 826 (*Sciomyza*) (= *Physegenua obscuripennis* (Bigot), Lauxaniidae; Hendel, 1908).
- ocellata* Fabricius, 1805: 330 (*Dictya*) (= *Pterocalla ocellata* (Fabricius), Otitidae; Steyskal, 1968).
- pectoralis* Walker, 1861: 321 (*Tetanocera*) (= Otitidae, teste B. Cogan).
- picta* Wiedemann, 1830: 576 (*Sciomyza*) (unplaced species of Lauxaniidae; G. E. Shewell, in litt.).
- uncana* Fabricius, 1805: 330 (*Dictya*) (= *Oestrophasiana uncana* (Fabricius), Tachinidae; Guimarães, 1971).

#### LITERATURE CITED

ABERCROMBIE, J.

1970. *Natural history of snail-killing flies of South America (Diptera: Sciomyzidae: Tetanocerini)*, 344 pp. Ph. D. Thesis, Cornell



University [Order n° 70-23,095, Univ. Microfilms, Ann Arbor, Mich.; Abstr. in *Diss. Abstr. Int.* (B) 31: 3456-3457].

ABERCROMBIE, J. & C. O. BERG

(In press). Natural history of *Thecomyia limbata* (Diptera: Sciomyzidae) from Brazil. *Proc. ent. Soc. Wash.*

BECKER, T.

1919. Diptères. Brachycères, pp. 163-215, pls. 14-17, in Ministère de l'Instruction Publique, *Mission du Service géographique de l'Armée pour la mesure d'un Arc de Méridien équatorial en Amérique du Sud, sous le contrôle scientifique de l'Académie des Sciences, 1899-1906*, 10(2). Gauthier-Villard & Co., Paris.

BERG, C. O., J. ZUSKA & J. ABERCROMBIE

(In press). Zoogeography of the Sciomyzidae (Diptera, Acalyptratae) of the Americas south of the United States. *Syst. Zool.*

BIGOT, J.

1857. Dipteros, pp. 328-349, in R. de la Sagra, *Historia fisica, politica y natural de la Isla de Cuba. Part II. Historia Natural*, 7 (Crustaceos, Aragnides e Insectos): xxxii + 371 pp. Arthus Bertrand, Paris.

BLANCHARD, E.

1852. Orden IX. Dipteros, pp. 327-468, in C. Gay, ed., *Historia fisica y politica de Chile, Zoologia*, 7: 471 pp. Paris.

BOYES, J. W., L. V. KNUTSON, K. Y. JAN & C. O. BERG

1969. Cytotaxonomic studies of Sciomyzidae (Diptera: Acalyptratae). *Trans. Amer. microsc. Soc.* 88(3): 331-356.

BRATT, A. D., L. V. KNUTSON, B. A. FOOTE & C. O. BERG

1969. Biology of *Pherbellia* (Diptera: Sciomyzidae). *Mem. N. Y. agric. Exp. St.* 404: 1-246.

BRÊTHES, J.

1908. Catálogo de los dípteros de las repúblicas del Plata. *An. Mus. nac. B. Aires* (3) 9 (1907): 277-305.

1925. Coléoptères et diptères chiliens. *Revta chil. Hist. nat. pura apl.* 29: 198-208.

CHOCK, Q. C., C. J. DAVIS & M. CHONG

1961. *Sepedon macropus* (Diptera: Sciomyzidae) introduced into Hawaii as a control for the liver fluke snail, *Lymnaea ollula*. *J. econ. Ent.* 54: 1-4.

COQUILLETT, D. W.

1901. New Diptera in the U.S. National Museum. *Proc. U.S. Nat. Mus.* 23: 593-618.

CRESSON, E. T., JR.

1914. Descriptions of new North American acalyptrate Diptera, I. *Ent. News* 25: 457-460.  
1920. A revision of Nearctic Sciomyzidae (Diptera, Acalyptratae). *Trans. Am. ent. Soc.* 46: 27-89, 3 pls.

CURRAN, C. H.

1932. The genus *Dictya* Meigen (Tetanoceridae, Diptera). *Am. Mus. Novit.* 517: 1-7.  
1934. The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Am. Mus. nat. Hist.* 66: 287-532.

DUMÉRIL, A. M. C.

1800. Exposition d'une méthode naturelle pour la classification et l'étude des insectes, présentée à la Société Philomatique le 3 brumaire an 9. *J. Phys. Chim. Hist. nat. Arts* 51: 427-439, 5 pls.

ENDERLEIN, G.

1939. Zur Kenntnis der Klassifikation der Tetanoceriden (Dipt.). *Veröff. Dt. Kolon. Mus. Bremen* 2(3): 201-210.

FABRICIUS, L. C.

1805. *Systema antliatorum secundum ordines, genera, species*. 373 + 30 pp. Carolum Reichard, Brunsvigae.

FALLÉN, C. F.

- [1820]. *Sciomyzidae (Sveciae)*, 16 pp. Litteris Berlingianis, Lund.

FISHER, T. W. & R. E. ORTH

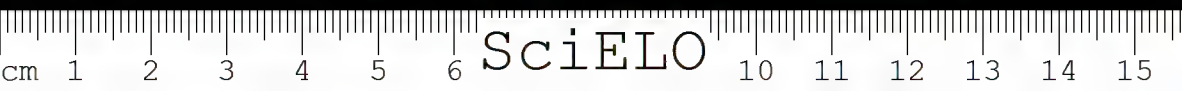
1969. Two new species of *Sepedon* separated from *S. armipes* Loew in western North America (Diptera: Sciomyzidae). *Pan-Pacif. Ent.* 45(2): 152-164.  
1972a. Resurrection of *Sepedon pacifica* Cresson and redescription of *Sepedon preamiosa* Giglio-Tos with biological notes (Diptera: Sciomyzidae). *Ibidem* 48(1): 8-20.  
1972b. Synopsis of *Hoplodictya* Cresson with one new species (Diptera: Sciomyzidae). *Ent. News* 83(7): 173-190.

FOOTE, B. A.

1961. *Biology and immature stages of the snail-killing flies belonging to the genus Tetanocera (Diptera: Sciomyzidae)*, 190 pp. Ph. D. Thesis, Cornell University. [L. C. Card n° Mic 62-105, Univ. Microfilms, Ann Arbor, Mich; Abstr. in *Diss. Abstr.* 22: 3302-3303].

FOOTE, B. A., S. E. NEFF & C. O. BERG

1960. Biology and immature stages of *Atrichomelina pubera* (Diptera: Sciomyzidae). *Ann. ent. Soc. Am.* 53(2): 192-199.



FOOTE, R. H.

1967. Family Tephritidae (Trypetidae, Trupaneidae), in Dep. Zool., Secr. Agric. S. Paulo, *A Catalogue of the Diptera of the Americas south of the United States*, 57: 1-91.

CICLIO-TOS, E.

1893. Diagnosi di nuovi generi e di nuove specie di ditteri, IX. *Boll. Mus. Zool. Anat. comp. R. Univ. Torino* 8(158): 1-14.

GRAY, G. R.

1835. *Synopsis of the species of insects belonging to the family of Phasmidae*. 48 pp., 2 pls. Longman, London.

GUIMARÃES, J. H.

1971. Family Tachinidae (Larvaevoridae), in Mus. Zool. Univ. S. Paulo, *A Catalogue of the Diptera of the Americas south of the United States*, 104: 1-333.

HALIDAY, A. H.

1838. Descriptions of new British insects indicated in Mr. Curtis's Guide. *Ann. nat. Hist.* 2: 112-121, 183-190.

HENDEL, F.

1900. Untersuchungen über die europäischen Arten der Gattung *Tetanocera* im Sinne Schiner's. Eine dipterologische Studie. *Verh. zool.-bot. Ges. Wien* 50: 319-358.  
1902. Revision der paläarktischen Sciomyziden. *Abhandl. zool.-bot. Ges. Wien* 2: 1-92.  
1932. Die Ausbeute der deutschen Chaco-Expedition 1925/26. Diptera (Fortsetzung). XXX-XXXVI. Sciomyzidae, Lauxaniidae, Tanypezidae, Lonchaeidae, Tylidae, Drosophilidae, Milichiidae. *Konowia* 11: 98-110, 115-145, figs. 1-6, 1-9.

HENNIG, W.

1952. Bemerkenswerte neue Acalyptraten in der Sammlung des Deutschen Entomologischen Institutes (Diptera: Acalyptratae). *Beitr. z. Ent.* 2: 604-618.

JAQUES, H. E.

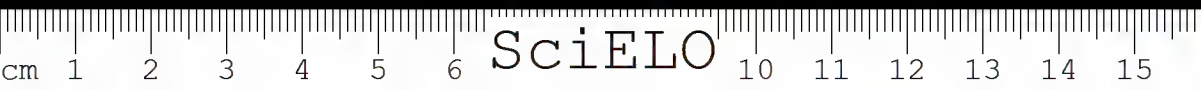
1939. A preliminary list of the Tetanoceridae of Iowa. *Proc. Iowa Acad. Sci.* 45 (1938): 283.

KACZYNSKI, V. W., J. ZUSKA & C. O. BERG

1969. Taxonomy, immature stages, and bionomics of the South American genera *Perilimnia* and *Shannonia* (Diptera: Sciomyzidae). *Ann. ent. Soc. Am.* 62(3): 572-592.

KNUTSON, L. V. & J. ZUSKA

1968. A new species of *Pteromicra* and of *Euthycera* from western North America (Diptera: Sciomyzidae). *Proc. ent. Soc. Wash.* 70(1): 78-84.





LATREILLE, P. A.

1804. Tableau méthodique des insectes, pp. 129-200, in Société de Naturalistes et d'Agriculteurs, *Nouveau Dictionnaire d'Histoire naturelle, appliqué aux arts, principalement à l'agriculture et à l'économie rurale et domestique*, 24 (Sect. 3) (Tableaux méthodiques d'histoire naturelle): 238 pp., 5 pls. Paris.
1829. Les Crustacés, les Arachnides et les Insectes, Tome second [Vol. 2], in [G.C.L.D. Cuvier], 1836-1849. *Le règne animal*. Ed. 2, 5: 556 pp., 5 pls. Paris.

LOEW, H.

1847. Ueber *Tetanocera ferruginea* und ihre verwandten Arten. *Stettin. ent. Z.* 8: 194-202.
1859. Die nordamerikanischen Arten der Gattungen *Tetanocera* und *Sepedon*. *Wien. ent. Mtschr.* 3: 289-300.
1862. Monographs of the Diptera of North America. Part I. *Smithson. misc. Coll.* 6(1 [= publ. 141]): 1-221, 2 pls.
1866. Diptera Americae septentrionalis indigena. *Centuria sexta*. *Berlin. ent. Z.* 9 (1865): 127-186.
1872. Diptera Americae septentrionalis indigena. *Centuria decima*. *Berlin. ent. Z.* 16: 49-115.
1876. Beschreibungen neuer amerikanischer Dipteren. *Z. ges. Naturwiss.* 48: 317-340.

MACQUART, J.

1835. *Histoire naturelle des insectes. Diptères. Tome deuxième. Diptera*, 2: 703 pp., 12 pls. In [N. E. Roret, ed.] (Collection des suites à Buffon). Paris.
1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. R. Sci., Agric. Arts, Lille* 1842: 162-460, 36 pls.
1846. Diptères exotiques nouveaux ou peu connus. [1er] Supplément. *Mém. Soc. R. Sci., Agric. Arts, Lille* (1845) 1844: 133-364, 20 pls.
1851. Diptères exotiques nouveaux ou peu connus. Suite du 4e. supplément. *Mém. Soc. R. Sci., Agric. Arts, Lille* 1850: 134-294. pls. 15-28.

MALLOCH, J. R.

1914. Synonymical notes on North American Sciomyzidae. *Can. Ent.* 46: 323-324.
1933. Acalyptrata, pp. 177-391, figs. 36-68, pls. 2-7 (= fasc. 4, cont.), in British Museum (Natural History), *Diptera of Patagonia and South Chile*, 6: 499 pp., 84 figs., 8 pls. London.

MEIGEN, J. W.

1803. Versuch einer neuen Gattungseintheilung der europäischen zweiflügeligen Insekten. *Mag. Insektenkde.* 2: 259-281.
1830. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten*, 6: iv + 401 pp., pls. 55-56. Schulzische Buchhandlung, Hamm.

MELANDER, A. L.

1920. Review of the Nearctic Tetanoceridae. *Ann. ent. Soc. Am.* 13: 305-332, 1 pl.

NEFF, S. E. & C. O. BERG

1961. Observations on the immature stages of *Protodictya hondurana* (Diptera: Sciomyzidae). *Bull. Brooklyn ent. Soc.* 56(2): 46-55.  
1962. Biology and immature stages of *Hoplodictya spinicornis* and *H. setosa* (Diptera: Sciomyzidae). *Trans. Am. ent. Soc.* 88: 77-93.  
1966. Biology and immature stages of malacophagous Diptera of the genus *Sepedon* (Sciomyzidae). *Va. agric. Exp. St. Bull.* 566: 1-113.

PERTY, M.

1833. Insecta brasiliensia, pp. 125-224, pls. 25-40, in his *Delectus animalium articulorum quae in itinere per Brasiliam annis MDCCCXVII-MDCCCXX jussu et auspiciis Maximiliani Josephi I. Bavariae regis augustissimi peracto collegerunt Dr. J. B. de Spix et Dr. C. F. Ph. de Martius*, 44 + 224 pp., 40 pls. Monachii, "1830-1834".

RETZIUS, A. J.

1788. *Dissertatio historico-naturalis nova Testaceorum genera*, etc. iv + 23 pp. Lund.

ROBINEAU-DESVOIDY, J. B.

1830. Essai sur les Myodaires. *Mém. présentés par divers Savans* (2) 2: 1-813.

RONDANI, C.

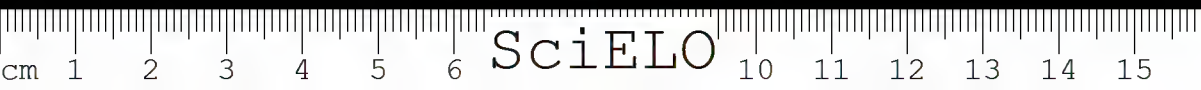
1868. Diptera aliqua in America meridionali lecta a Prof. P. Strobl annis 1866-67 distincta et annotata novis aliquibus descriptis. *Ann. Soc. Natural. Modena* 3: 24-40, pl. 4.

SCHINER, J. R.

1868. Diptera [Art. 1], pp. 1-388, 4 pls., in [B. von Wüllersdorf-Urbair, in charge], *Reise der österreichischen Fregatte Novara*. (Zool. Theil) 2 (1, B). Vienna.

STEYSKAL, G. C.

1938. New Stratiomyidae and Tetanoceridae (Diptera) from North America. *Occas. Pap. Mus. Zool. Univ. Mich.* 386: 1-10, 2 pls.  
1960. The genus *Protodictya* Malloch (Diptera, Sciomyzidae). *Proc. ent. Soc. Wash.* 52(1): 33-39.  
1951. The genus *Sepedon* Latreille in the Americas (Diptera: Sciomyzidae). *Wasmann J. Biol.* 8(3): 271-297 (1950).  
1953. Notes on a collection of Argentine Sciomyzidae. *Acta zool. Lilloana* 13: 73-75.  
1954. The American species of the genus *Dictya* Meigen (Diptera, Sciomyzidae). *Ann. ent. Soc. Am.* 47: 511-539.



1959. The American species of the genus *Tetanocera* Duméril (Diptera). *Pap. Mich. Acad. Sci. Arts Lett.* 44: 55-91.
1960. New North and Central American species of Sciomyzidae (Diptera: Acalyptratae). *Proc. ent. Soc. Wash.* 62(1): 33-43.
1963. Taxonomic notes on Sciomyzidae (Diptera, Acalyptratae). *Pap. Mich. Acad. Sci. Arts Lett.* 48: 113-125.
1966. Notes on types of some species described in *Sciomyza* and *Tetanocera* by Loew, Walker and Van der Wulp (Diptera, Sciomyzidae, Muscidae, Neriidae, Pyrgotidae). *Studia ent.* 8: 445-448 (1965).
1967. Family Ropalomeridae, in *Dep. Zool., Secr. Agric., S. Paulo, A Catalogue of the Diptera of the Americas south of the United States*, 60: 1-7.
1968. Family Otitidae, in *Idem, Ibidem*, 54: 1-31.
1973. A new classification of the *Sepedon* group of the family Sciomyzidae (Diptera) with two new genera. *Ent. News* 84: 143-146.
1974. The genus *Dictyodes* Malloch (Diptera: Sciomyzidae). *Proc. ent. Soc. Wash.* 75(4): 427-430 (1973).

STEYSKAL, G. C. & L. V. KNUTSON

1975. Key to the genera of Sciomyzidae (Diptera) from the Americas south of the United States, with descriptions of two new genera. *Proc. ent. Soc. Wash.* 77: 274-277.

THOMSON, C. G.

1869. 6. Diptera. Species nova descripsit, pp. 443-614, pl. 9 (= H. 12, n° 2), in K. Svenska Vetenskaps-Akademien, *Kongliga Svenska Fregatten Eugénies Resa omkring jorden under befall af C. A. Virgin, Åren 1851-1853, Pt 2* (Zool., Sec. 1: Insekter): 617 pp., 9 pls. Stockholm.

VALLEY, K. R.

1974. *Biology and immature stages of snail-killing Diptera of the genus Dictya (Sciomyzidae)*, 174 pp. Ph. D. Thesis, Cornell University. [Order n° 75-1630, Univ. Microfilms, Ann Arbor, Mich.; Abstr. in *Diss. Abstr.* 35(7): 2372B].

WALKER, F.

1837. Descriptions, etc. of the Diptera, pp. 331-359, in J. Curtis, A. H. Haliday & F. Walker, Descriptions, etc. of the insects collected by P. P. King, R. N., F. R. S., in the survey of the Straits of Magellan. *Trans. Linn. Soc. London* 17: 315-359.
1849. *List of the specimens of dipterous insects in the collection of the British Museum*, 4: 689-1172. London.
1856. *Insecta Saundersiana: Or characters of undescribed species in the collection of William Wilson Saunders, Esq., F.R.S., F.L.S., &c., 1* (Diptera): 474 pp., 8 pls. London.
1858. Characters of undescribed Diptera in the collection of W. W. Saunders, Esq., F.R.S., &c. *Trans. ent. Soc. London* (n.s.) 4: 190-235.
1861. Characters of undescribed Diptera in the collection of W. W. Saunders, Esq., F.R.S., &c. *Trans. ent. Soc. London* (n.s.) 5: 297-334 (1860).

WESTWOOD, J. O.

1840. Diptera, pp. 125-158, in Synopsis of the genera of British insects, in his *An introduction to the modern classification of insects*, 2. London.

WIEDEMANN, C. R. W.

1819. Brasilianische Zweiflügler. *Zool. Mag.* (Wiedemann's) 1(3): 40-56.  
1830. *Aussereuropäische zweiflügelige Insekten*, 2: xii + 684 pp., 5 pls. Hamm.

WIRTH, W. W.

1968. Family Ephydriidae, in Dep. Zool., Secr. Agric., S. Paulo, *A Catalogue of the Diptera of the Americas south of the United States*, 77: 1-43.

WULP, F. M. VAN DER

1883. Amerikaansche Diptera [concl.]. *Tijdschr. Ent.* 26: 1-60, 2 pls.  
1897. Family Muscidae, Sciomyzinae, pp. 354-360, pl. 9, in F.D. Godman & O. Salvin, eds., *Biologia Centrali Americana. Zoologia-Insecta-Diptera*, 2: 489 pp., 11 figs., 13 pls. London.

ZUSKA, J. & C. O. BERG

1974. A revisoin of the South American genus *Tetanoceroides* (Diptera: Sciomyzidae), with notes on colour variations correlated with mean temperatures. *Trans. R. ent. Soc. London* 125(3): 329-362.

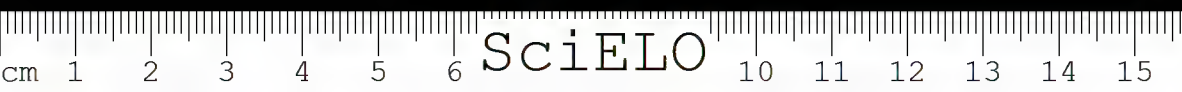
# INDEX

|  |       |
|--|-------|
| abnormis Steyskal, 1954, Dictya .....                                  | 64.6  |
| Achaetomelina Cresson, 1920 .....                                      | 64.3  |
| acuticornis (Wulp), 1897, Hoplodictya .....                            | 64.8  |
| albibasis (Malloch), 1933 (Melina), Eutrichomelina .....               | 64.3  |
| albifacies Becker, 1919, Perilimnia .....                              | 64.8  |
| angulifera (Walker), 1819 (Tetanocera), Protodictya .....              | 64.9  |
| annulata Macquart, 1843 (Sepedon) .....                                | 64.13 |
| Antichaeta Haliday, 1838 .....   | 64.5  |
| apicalis Malloch, 1933, Pseudomelina .....                             | 64.5  |
| apicalis Steyskal, 1950, Protodictya .....                             | 64.9  |
| armillata Rondani, 1868 (Sciomyza) .....                               | 64.13 |
| armipes Loew, 1859, Sepedon .....                                      | 64.10 |
| atomaria (Fabricius), 1805 (Dictya) (Tephritidae) .....                | 64.14 |
| Atrichomelina Cresson, 1920 .....                                      | 64.3  |
| australis Fisher & Orth, 1972, Hoplodictya .....                       | 64.8  |
| bicolor (Walker), 1837 (Sciomyza), Heloparia (Falloppteridae) ....     | 64.14 |
| bipuncticeps (Malloch), 1933 (Sepedon), Sepedomerus .....              | 64.9  |
| bisetosus (Thomson), 1869 (Tetanocera), Tetanoceroides .....           | 64.12 |
| bispinosa (Fabricius), 1805 (Scatophaga), Beckeriella (Ephydriidae) .. | 64.14 |
| brasiliensis (Schiner), 1868 (Sepedon), Protodictya .....              | 64.9  |

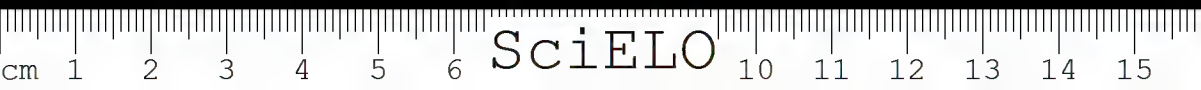




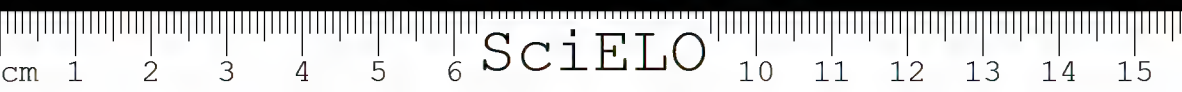
|   |       |
|---|-------|
| caeruleus (Melander), 1920 (Sepedon), Sepedomerus .....             | 64.10 |
| callisceles (Steyskal), 1963 (Pherbellia), Calliscia .....          | 64.3  |
| Calliscia Steyskal, 1975 .....                                      | 64.3  |
| cancellaria (Fabricius), 1805 (Dictya) (Ropalomeridae) .....        | 64.14 |
| cayennensis Robineau-Desvoidy, 1830 (Pherbina) .....                | 64.13 |
| chilensis Malloch, 1933, Protodictya .....                          | 64.9  |
| chiloensis (Malloch), 1933 (Notopherbellia), Pherbellia .....       | 64.4  |
| cineritia Zuska, 1969 Perilimnia .....                              | 64.8  |
| claropunctata (Robineau-Desvoidy), 1830 (Retellia), Dictyodes ..... | 64.7  |
| cornuta (Walker), 1856 (Tetanocera), Loxozus (Neriidae) .....       | 64.14 |
| corollae (Fabricius), 1805 (Dictya), Sapromyza (Lauxaniidae) ....   | 64.14 |
| costalis (Walker), 1837 (Tetanocera), Shannonia .....               | 64.11 |
| costaricensis Steyskal, 1960, Teutoniomyia .....                    | 64.13 |
|   |       |
| dentifer Zuska, 1974, Tetanoceroides .....                          | 64.12 |
| Dichrochirosa Malloch, 1933 .....                                   | 64.5  |
| Dictya Meigen, 1803 .....   | 64.6  |
| dictyodes (Wiedemann), 1830 (Tetanocera), Dictyodes .....           | 64.7  |
| Dictyodes Malloch, 1933 .....                                       | 64.7  |
| dissimilis (Malloch), 1933 (Dichrochirosa), Parectinocera .....     | 64.5  |
| dubia (Malloch), 1933 (Notosciomyza), Perilimnia .....              | 64.8  |
|   |       |
| Euthycera Latreille, 1829 .....                                     | 64.7  |
| Euthycerina Malloch, 1933 .....                                     | 64.7  |
| Eutrichomelina Steyskal, 1975 .....                                 | 64.3  |
| evittata (Malloch), 1933 (Melina), Pherbellia .....                 | 64.4  |
| externa Fabricius, 1805 (Dictya) .....                              | 64.14 |
|   |       |
| fascialis (Wiedemann), 1830 (Sciomyza) (Lauxaniidae) .....          | 64.14 |
| femorata (Fabricius), 1805 (Dictya), Ropalomera (Ropalomeridae)     | 64.14 |
| fulvescens Blanchard, 1852 (Sciomyza) .....                         | 64.13 |
| fulvipennis (Walker), 1837 (Sciomyza), Eutrichomelina .....         | 64.3  |
| fulvithorax Malloch, 1933, Tetanoceroides .....                     | 64.12 |
|   |       |
| geminata (Fabricius), 1805 (Dictya), Sapromyza (Lauxaniidae) ....   | 64.14 |
| Graphomysina Macquart, 1835 .....                                   | 64.4  |
| griseus Meigen, 1830, Pherbellia .....                              | 64.4  |
| guatemalana Steyskal, 1954, Pherbellia .....                        | 64.11 |
| guatemalana (Steyskal), 1951 (Sepedon), Sepedonea .....             | 64.6  |
| Guatemala Steyskal, 1960 .....                                      | 64.7  |
| guerini Robineau-Desvoidy, 1830 (Dictya) .....                      | 64.14 |
| guianica (Steyskal), 1951 (Sepedon), Sepedonea .....                | 64.11 |
| guttata (Coquillett), 1901 (Sciomyza), Pherbellia .....             | 64.4  |
| guttipennis (Hendel), 1932 (Graptomyzina), Pherbellia .....         | 64.4  |
| guttularis (Wiedemann), 1830 (Tetanocera), Protodictya .....        | 64.9  |
| gutturalis (Wiedemann), of Erèthes, 1907 and 1925, Protodictya      | 64.9  |
|   |       |
| haplobasis Steyskal, 1960, Sepedon .....                            | 64.10 |
| Hemitelopteryx Cresson, 1920 .....                                  | 64.5  |
| Heteropteryx Hendel, 1902 .....                                     | 64.5  |
| hondurana Steyskal, 1950, Protodictya .....                         | 64.9  |
| Hoplodictya Cresson, 1920 .....                                     | 64.8  |



|   |       |
|---|-------|
| <i>hubbelli</i> Steyskal, 1960, Guatemalaia .....                               | 64.8  |
| <i>humilis</i> (Loew), 1876 (Sciomyza), Pherbellia .....                        | 64.4  |
| <i>iguassu</i> Steyskal, 1950, Protodictya .....                                | 64.9  |
| <i>inaequalis</i> (Malloch), 1933 (Dichrochirosa), Parectinocera .....          | 64.5  |
| <i>incisa</i> Curran, 1932, Dictya .....  | 64.6  |
| <i>infuscata</i> (Wulp), 1897 (Sciomyza), Pseudogriphonerua (Lauxaniidae) ..... | 64.14 |
| <i>insularis</i> Steyskal, 1954, Dictya .....                                   | 64.6  |
| <i>isthmi</i> (Steyskal), 1951 (Sepedon), Sepedonea .....                       | 64.11 |
| <i>lacera</i> Wiedemann, 1830 (Tetanocera) .....                                | 64.14 |
| <i>lagoa</i> (Steyskal), 1951 (Sepedon), Sepedonea .....                        | 64.11 |
| <i>lateralis</i> (Walker), 1858 (Tetanocera), Thecomyia .....                   | 64.13 |
| <i>lathraea</i> Steyskal, 1963, Pherbellia .....                                | 64.5  |
| <i>lilloana</i> Steyskal, 1953, Protodictya .....                               | 64.9  |
| <i>limbata</i> (Wiedemann), 1819 (Tetanocera), Thecomyia .....                  | 64.13 |
| <i>limbipennis</i> Macquart, 1846 (Sciomyza) .....                              | 64.14 |
| <i>lindneri</i> (Hendel), 1932 (Sepedon), Sepedonea .....                       | 64.11 |
| <i>Lioya</i> Enderlein, 1939 .....  | 64.6  |
| <i>lobifera</i> Curran, 1932, Dictya .....                                      | 64.6  |
| <i>longicornis</i> Perty, 1833, Thecomyia .....                                 | 64.13 |
| <i>Lunigera</i> Hendel, 1900 .....  | 64.7  |
| <i>macropus</i> (Walker), 1849 (Sepedon), Sepedomerus .....                     | 64.10 |
| <i>matthewsi</i> Steyskal, 1960, Dictya .....                                   | 64.6  |
| <i>melanaspis</i> Wiedemann, 1830 (Sciomyza) .....                              | 64.14 |
| <i>Melina</i> Robineau-Desvoidy, 1830 .....                                     | 64.4  |
| <i>mendicus</i> Zуска, 1974, Tetanoceroides .....                               | 64.12 |
| <i>meridionalis</i> Zуска, 1969, Shannonia .....                                | 64.11 |
| <i>mesopleuralis</i> Malloch, 1933, Tetanoceroides .....                        | 64.12 |
| <i>mexicana</i> Steyskal, 1954, Dictya .....                                    | 64.6  |
| <i>mira</i> Knutson & Zуска, 1968, Euthycera .....                              | 64.7  |
| <i>Monochaetophora</i> Hendel, 1900 .....                                       | 64.6  |
| <i>nana</i> (Fallén), 1820 (Sciomyza), Pherbellia .....                         | 64.4  |
| <i>neffi</i> Steyskal, 1960, Dictya .....                                       | 64.6  |
| <i>neotropica</i> Becker, 1919, Parectinocera .....                             | 64.5  |
| <i>nigriventris</i> (Wulp), 1897 (Sepedon), Sepedomerus .....                   | 64.10 |
| <i>nigripes</i> Blanchard, 1852 (Sciomyza) .....                                | 64.14 |
| <i>Notopherbellia</i> Malloch, 1933 .....                                       | 64.4  |
| <i>Notosciomyza</i> Malloch, 1933 .....   | 64.8  |
| <i>nubilipennis</i> (Wulp), 1897 (Sepedon), Protodictya .....                   | 64.9  |
| <i>obscuripennis</i> (Bigot), 1857 (Sciomyza), Physegenua (Lauxanidae) .....    | 64.14 |
| <i>occidentalis</i> (Wulp), 1883 (Ectinocera), Tetanoceroides .....             | 64.12 |
| <i>ocellata</i> (Fabricius), 1805 (Dictya), Pterocalla (Otitidae) .....         | 64.14 |
| <i>pacifica</i> Cresson, 1914, Sepedon .....                                    | 64.10 |
| <i>parallela</i> (Walker), 1852 (Sciomyza), Pherbellia .....                    | 64.4  |
| <i>patagonicus</i> (Thomson), 1869 (Tetanocera), Tetanoceroides .....           | 64.12 |
| <i>Parectinocera</i> Becker, 1919 .....   | 64.5  |
| <i>patagonensis</i> (Macquart), 1851 (Sciomyza), Pherbellia .....               | 64.4  |



|  |       |
|--|-------|
| <i>pectoralis</i> (Walker), 1861 (Tetanocera) (Otitidae) .....                     | 64.14 |
| <i>Perilimnia</i> Becker, 1919 .....   | 64.8  |
| <i>Pherbellia</i> Robineau-Desvoidy, 1830 .....                                    | 64.4  |
| <i>philippii</i> (Malloch), 1933 (Melina), <i>Pherbellia</i> .....                 | 64.5  |
| <i>picta</i> (Wiedemann), 1830 (Sciomyza) (Lauxanniidae) .....                     | 64.14 |
| <i>pictipes</i> Loew, 1858, <i>Dictya</i> .....                                    | 64.6  |
| <i>pilosa</i> Malloch, 1933, <i>Euthycerina</i> .....                              | 64.7  |
| <i>platensis</i> Steyskal, 1974, <i>Dictyodes</i> .....                            | 64.7  |
| <i>plaumanni</i> Hennig, 1952, <i>Tetanoceroides</i> .....                         | 64.13 |
| <i>plumifera</i> Wulp, 1897, <i>Tetanocera</i> .....                               | 64.12 |
| <i>plumosa</i> Loew, 1847, <i>Tetanocera</i> .....                                 | 64.12 |
| <i>praemiosa</i> Giglio-Tos, 1893, <i>Sepedon</i> .....                            | 64.10 |
| <i>Protodictya</i> Malloch, 1933 .....   | 64.8  |
| <i>Pseudomelina</i> Malloch, 1933 .....  | 64.5  |
| <i>pubera</i> (Loew), 1862 (Sciomyza), <i>Atrichomelina</i> .....                  | 64.3  |
| <br>   |       |
| <i>relicta</i> Wulp, 1897, <i>Sepedon</i> .....                                    | 64.10 |
| <i>Retellia</i> Robineau-Desvoidy, 1830 .....                                      | 64.7  |
| <br>   |       |
| <i>sabroskii</i> Steyskal of Jaques, 1939, <i>Dictya</i> .....                     | 64.6  |
| <i>sabroskyi</i> Steyskal, 1938, <i>Dictya</i> .....                               | 64.6  |
| <i>Sciomyza</i> , authors .....  | 64.4  |
| <i>Sciomyzinae</i> .....   | 64.3  |
| <i>Sciomyzini</i> .....  | 64.3  |
| <i>Sepedomerus</i> Steyskal, 1973 .....  | 64.9  |
| <i>Sepedon</i> Latreille, 1804 .....   | 64.10 |
| <i>Sepedonea</i> Steyskal, 1973 .....  | 64.10 |
| <i>serena</i> (Wulp), 1897 (Sciomyza), <i>Pherbellia</i> .....                     | 64.4  |
| <i>Shannonia</i> Malloch, 1933 .....   | 64.11 |
| <i>simplex</i> Zуска, 1974, <i>Tetanoceroides</i> .....                            | 64.13 |
| <i>sp.</i> , <i>Antichaeta</i> .....   | 64.6  |
| <i>spiniornis</i> (Loew), 1866 (Tetanocera), <i>Hoplodictya</i> .....              | 64.8  |
| <i>spretia</i> Wulp, 1897, <i>Tetanocera</i> .....                                 | 64.12 |
| <i>squalens</i> (Wulp), 1897 (Sciomyza), <i>Atrichomelina</i> .....                | 64.3  |
| <i>straminata</i> (Wulp), 1897 (Tetanocera), <i>Guatemalia</i> .....               | 64.8  |
| <i>strigata</i> (Wulp), 1897 (Sciomyza), <i>Pherbellia</i> .....                   | 64.5  |
| <br>   |       |
| <i>telson</i> (Steyskal), 1951 (Sepedon), <i>Sepedonea</i> .....                   | 64.11 |
| <i>Tetanocera</i> Duméril, 1800 .....  | 64.11 |
| <i>Tetanocerini</i> .....  | 64.5  |
| <i>Tetanoceroides</i> Malloch, 1933 .....  | 64.12 |
| <i>Teutoniomyia</i> Hennig, 1952 .....   | 64.13 |
| <i>texensis</i> Curran, 1932, <i>Dictya</i> .....                                  | 64.6  |
| <i>Thecomyia</i> Perty, 1833 .....   | 64.13 |
| <i>trabeculata</i> (Loew), 1872 (Sciomyza), <i>Pherbellia</i> .....                | 64.5  |
| <i>transducta</i> (Walker), 1861 (Sciomyza), <i>Pherbellia</i> .....               | 64.4  |
| <i>trilineata</i> Hendel, 1932, <i>Thecomyia</i> .....                             | 64.13 |
| <i>trinidadensis</i> (Steyskal), 1951 (Sepedon), <i>Sepedomerus</i> .....          | 64.10 |
| <br>   |       |
| <i>umbrarum</i> (Linnaeus), 1758, <i>Dictya</i> .....                              | 64.7  |
| <i>uncana</i> (Fabricius), 1805 (Dictya), <i>Oestrophasiana</i> (Tachinidae) ..... | 64.14 |
| <br>   |       |
| <i>vittigera</i> (Malloch), 1933 (Melina), <i>Pherbellia</i> .....                 | 64.5  |
| <i>vittithorax</i> Malloch, 1933, <i>Euthycerina</i> .....                         | 64.7  |



MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

65A

FAMILY EURYCHOROMYIIDAE

ANGELO PIRES DO PRADO

Departamento de Zoologia, Setor de Parasitologia  
Universidade Estadual de Campinas, São Paulo, Brasil

This family is only known from the four original syntypes of *Eurychoromyia mallea* Hendel, described from Bolivia. For a long time it was considered as an "isolated group of Acalyptratae". Hennig (1958) and McAlpine (1968) described the female and male postabdomen respectively and discussed its systematic position.

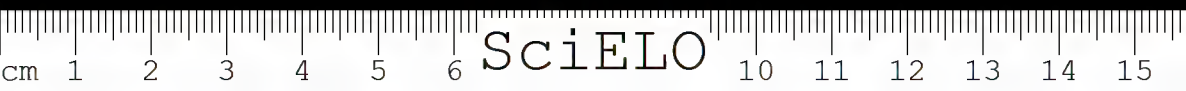
Genus EURYCHOROMYIA Hendel

EURYCHOROMYIA Hendel 1910:123. Type-species, *mallea* Hendel (mon.).  
MALLEA Hendel, 1910:127, figs. 5-6 (female : head, wing, and terminalia).  
Type-locality: Bolivia, Mapiri. Distr. — Bolivia, Refs. — Hennig, 1958:599, figs. 27f, 151, 156, 165 (spermathecae, head, wing, and female postabdomen); McAlpine, 1968:819, figs. 1-6 (male postabdomen; male lectotype des.).

LITERATURE CITED

- HENDEL, F.  
1910. Ueber acalyptrate Musciden. *Wien. ent. Ztg.* 29:101-127, pl. 1, 13 figs.
- HENNIG, W.  
1958. Die Familien der Diptera Schizophora und ihre phylogenetischen Verwandtschaftsbeziehungen. *Beitr. z. Ent.* 8(5-6): 505-686, 365 figs.
- MCALPINE, J. F.  
1968. Taxonomic notes on *Eurychoromyia mallea* (Diptera: Eurychoromyiidae). *Can. Ent.* 100(8):819-823, 6 figs.





SciELO

MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

67

## FAMILY PERISCELIDIDAE

ANGELO PIRES DO PRADO

*Departamento de Zoologia, Setor de Parasitologia*  
*Universidade Estadual de Campinas, São Paulo, Brasil*

This small family is poorly known in the Neotropical region. The only information available on the habits of this group is that *Periscelis nebulosa* Hendel was taken on a bleeding tree. The only comprehensive treatment of the family is by Sturtevant (1954). Hennig (1969) added new South American records.

## Genus DIOPSOSOMA Malloch

DIOPSOSOMA Malloch, 1932:267. Type-species, *prima* Malloch (orig. des.).  
PRIMA Malloch, 1932:267. Type-locality: "Peru".

## Genus MARBENIA Malloch

MARBENIA Malloch, 1931:31. Type-species, *peculiaris* Malloch (orig. des.).  
PECULIARIS Malloch, 1931:32, figs. 9-10. Type-locality: Panama, Portobello. Distr. — Panama.

## Genus NEOSCUTOPS Malloch

NEOSCUTOPS Malloch, 1926:25. Type-species, *rotundipennis* Malloch (orig. des.).  
PERUVIANUS Hennig, 1969:603, fig. 26. Type-locality: Peru, Madre de Dios, Avispas. Distr. — Peru.  
ROTUNDIPENNIS Malloch, 1926:25, figs. 7-8. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.

## Genus PERISCELIS Loew

PERISCELIS Loew, 1858:113. Type-species, *annulipes* Loew (Sturtevant, 1923:1).  
NEBULOSA Hendel, 1913:389. Type-locality; Argentina, Buenos Aires. Distr. — Argentina.

67.1

? OCCIDENTALIS Sturtevant, 1954:554. Type-locality: U.S.A., California, Cottonwood Spring, near Mecca, Riverside Co. Distr. — U.S.A. (California, Arizona, New Mexico, Washington, Texas), Mexico (Chihuahua: Camargo). Ref. — Hennig, 1969:602.

SP.1 Hennig, 1969:602. — Peru, Madre de Dios, Avispas.

SP.2 Hennig, 1969:602. — Brazil, Santa Catarina, Nova Teutônia.

#### Genus SCUTOPIPS Coquillett

SCUTOPIPS Coquillett, 1904:97. Type-species, *fascipennis* Coquillett (orig. des.).

*Panamenia* Curran, 1934:323. Type-species, *chapmani* Curran (orig. des.). CHAPMANI (Curran), 1934:323 (*Panamenia*). Type-locality: Panama, Canal Zone, Barro Colorado Island. Distr. — Panama. (A syn. of *fascipennis* Coquillett?).

FASCIPENNIS Coquillett, 1904:97. Type-locality: Nicaragua. Distr. — Nicaragua, Costa Rica. Ref. — Malloch, 1926:24, figs. 3, 5.

MACULIPENNIS Malloch, 1926: 241, figs. 4, 6. Type-locality: Mexico, Mexico City. Distr. — Mexico.

PERUANUS Hennig, 1952:615, figs. 21-23. Type-locality: Peru, Meshagua, Urubamba River. Distr. — Peru.

STRIATUS Hennig, 1969:604, fig. 25. Type-locality: Peru, Madre de Dios, Avispas. Distr. — Peru.

SP. Sturtevant, 1954:555. "Colombia".

#### LITERATURE CITED

COQUILLETT, D. W.

1904. New Diptera from Central America. *Proc. Ent. Soc. Washington* 6(2):90-98.

CURRAN, C. H.

1934. *The families and genera of North American Diptera*, Ballou Press, New York, 512 pp.

HENDEL, F.

1913. Neue Drosophiliden aus Südamerika und Neuguinea (Dipt.). *Ent. Mitt.* 2:386-390.

HENNIG, W.

1952. Bemerkenswerte neue Acalyptraten in der Sammlung des Deutschen Entomologischen Institutes. *Beitr. Ent.* 2:604-618, 24 figs.

1969. Neue Gattungen und Arten der Acalyptratae. *Canad. Ent.* 101(6):589-633, 72 figs.

LOEW, H.

1858. Ueber einige neue Fliegengattungen. *Berliner Ent. Zeitsch.* 2:101-122.

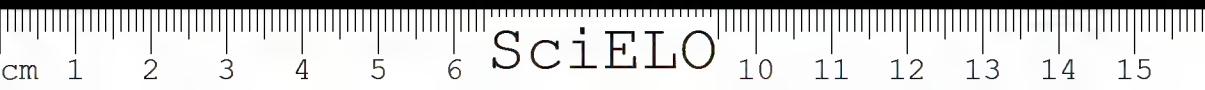
MALLOCH, J. R.

1926. New genera and species of acalyptrate flies in the United States National Museum. *Proc. U.S. Natl. Mus.* 68(21):1-35, pls. 1-2, 20 figs.

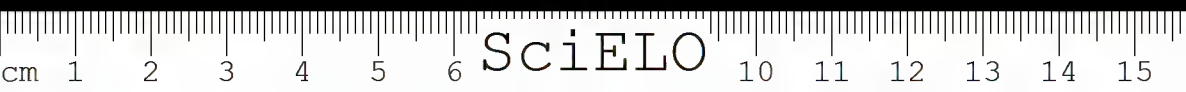
1931. Notes on some acalyptate flies in the United National Museum. *Proc. U.S. Natl. Mus.* 78(15):1-32, 10 figs.
1932. A new genus of diopsid-like Diptera (Periscelidae). *Stylops* 1 (12):266-268.
- STURTEVANT, A. H.
1923. New species and notes on synonymy and distribution of Muscidae Acalyptate (Diptera). *Amer. Mus. Novit.* 76:1-12, 2 figs.
1954. Nearctic flies of the family Periscelidae (Diptera) and certain Anthomyzidae referred to the family. *Proc. U.S. Natl. Mus.* 103 (3332):551-561.

#### INDEX

|  |      |
|--|------|
| chapmani (Curran), 1934 (Panamenia), Scutops ..... | 67.2 |
| Dipsosoma Malloch, 1932 .....                      | 67.1 |
| fascipennis Coquillett, 1904, Scutops .....        | 67.2 |
| maculipennis Malloch, 1926, Scutops .....          | 67.2 |
| Marbenia Malloch, 1931 .....                       | 67.1 |
| nebulosa Hendel, 1913, Periscelis .....            | 67.1 |
| Neoscutops Malloch, 1926 .....                     | 67.1 |
| ?occidentalis Malloch, 1926, Periscelis .....      | 67.2 |
| <i>Panamenia</i> Curran, 1934 .....                | 67.2 |
| peculiaris Malloch, 1931, Marbenia .....           | 67.1 |
| Periscelis Loew, 1858 .....                        | 67.1 |
| peruanus Hennig, 1952, Scutops .....               | 67.2 |
| peruvianus Hennig, 1969, Neoscutops .....          | 67.1 |
| prima Malloch, 1932, Dipsosoma .....               | 67.1 |
| rotundipennis Malloch, 1926, Neoscutops .....      | 67.1 |
| Scutops Coquillett, 1904 .....                     | 67.2 |
| sp. Sturtevant, 1954, Scutops .....                | 67.2 |
| sp. 1 Hennig, 1969, Periscelis .....               | 67.2 |
| sp. 2 Hennig, 1969, Periscelis .....               | 67.2 |
| striatus Hennig, 1969, Scutops .....               | 67.2 |







SciELO

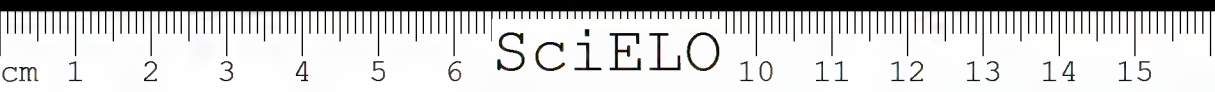
SUPERFAMILY PALLOPTEROIDEA

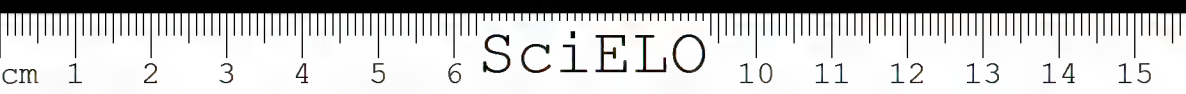
Family Piophilidae

Family Thyreophoridae

Family Pallopteridae

Family Lonchaeidae





SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

68

## FAMILY PIOPHILIDAE

GEORGE C. STEYSKAL

*Entomology Research Division, Agric. Res. Serv.  
U.S. Department of Agriculture  
Washington, D.C.*

The Piophilidae are small, mostly shining blackish flies with clear, glassy wings. They breed in many kinds of animal matter; one of them, *Piophila casei* (Linnaeus), is of cosmopolitan notoriety as the "cheese skipper". The distribution of the group is nearly entirely holarctic, but several species seem to have been carried widely by human agencies. The most important work is by Hennig (1943). Malloch (1933) cited most of the South American records.

## Genus PIOPHILA Fallén

PIOPHILA Fallén, 1810:20. Type-species, *Musca casei* Linnaeus (mon.).

## Subgenus PIOPHILA Fallén

CASEI (Linnaeus), 1758:597 (*Musca*). Type-locality: "Europe". Distr. — cosmopolitan; Jamaica, Cuba, Juan Fernandez Islands, Mexico, Costa Rica, Venezuela, Ecuador, Brazil, Bolivia, Paraguay, Argentina, Chile. Ref. — Guimarães, 1931:16.

*meridionalis* Hendel, 1933:219. Type-locality: Paraguay, Santa Trinidad.  
N. SYN.

## Subgenus LIOPIOPHILA Duda

Piophila, subg. LIOPIOPHILA Duda, 1924:109. Type-species, *Piophila varipes* Meigen (Hennig, 1943:29).

NIGRIMANA Meigen, 1826:396. Type-locality: "Europe". Distr. — Holarctic; Argentina, Chile.

## Subgenus STEARIBIA Lioy

STEARIBIA Lioy, 1864:1105 (as genus). Type-species, *Piophila foveolata* Meigen (mon.) = *nigriceps* Meigen.

NIGRICEPS Meigen, 1826:397. Type-locality: "Europe". Distr. — Holarctic region; Ecuador, Argentina, Chile, Juan Fernandez Islands.



*foveolata* Meigen, 1826:396. Type-locality: "Europe". Synonymy by Duda, 1924:157, as first reviser.

#### LITERATURE CITED

DUDA, O.

1924. Revision der europäischen u. grönländischen sowie einiger südostasiatischen Arten der Gattung *Piophila* Fallén (Dipteren). *Konowia* 3:97-113, 153-203.

FALLÉN, C. F.

1810. *Specim. entomolog. novam Diptera disponendi methodum exhibens*, 26 pp., 1 pl. Lund.

GUIMARÃES, J. R. A.

1931. Estudos sobre uma "Piophilidae" de Ubatuba. *Bol. Biol.*, Rio de Janeiro 17:16-17, 1 pl.

HEHNDEL, F.

1933. Von Dr. Zürcher in den Jahren 1913-1918 in Paraguay gesammelte acalyptrate Dipteren. *Rev. de Ent.* 3:213-224.

HEHNIG, W.

1943. Piophilidae, in E. Lindner, ed., *Die Fliegen der palaearktischen Region* 5(fam. 40, lfig. 151):1-52, pls. 1-3.

LINNAEUS, C.

1758. *Systema naturae per regna tria naturae*. Ed. 10, vol. 1:824 pp., Holmiae (= Stockholm).

LIOTY, P.

1864. I ditteri distribuiti secondo un nuovo metodo di classificazione naturale (cont.). *Atti I. R. Ist. Veneto Sci. Let. Arti* (3) 9:499-518, 569-604, 719-771, 879-910, 989-1027, 1087-1126, 1311-1352 (cont.).

MALLOCH, J. R.

1933. Acalyptrata, in British Museum (Natural History): *Diptera of Patagonia and South Chile*, part 6, fasc. 1:177-391, pls. 2-7. Piophilidae on pp. 246-247.

MEIGEN, J. W.

1826. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten*, vol. 5:i-xii, 1-412 pp., pls. 42-54.

## MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

69

## FAMILY THYREOPHORIDAE

NELSON PAPAVERO

*Departamento de Zoologia, Secretaria da Agricultura  
São Paulo, Brasil*

The only representative of the family in the Neotropics is found associated with decaying animal carcasses and viscerae, and its range is limited, as far as is known, to the mountains of southeastern Brazil (Rio de Janeiro and São Paulo). The North American species *Omomyia hirsuta* Coquillett was found in dead *Yucca arborescens* (Barber, 1908).

## Genus BOCAINAMYIA Albuquerque

BOCAINAMYIA Albuquerque, 1953:109. Type-species, *necrophila* Albuquerque (orig. des.).

NECROPHILA Albuquerque, 1953:110, figs. 1-5 (♂ head, scutellum, wing, pretarsus III, genitalia). Type-locality: Brazil, São Paulo, Serra da Bocaina, Fazenda Lajeado. Distr. — Brazil [Rio de Janeiro: Petrópolis, Alto da Mosela, Le Vallon; São Paulo: Serra da Bocaina, and Campos do Jordão, Eugênio Lefevre, 1200 m (specimen in Museu de Zoologia, São Paulo)]. Ref. — Albuquerque, 1957:563-566 (description of female), figs. 1-3, 5 (♀ wing, head, scutellum, spermatheca), 4 (♂ scutellum). Type, Museu Nacional, Rio de Janeiro, Guanabara.

## LITERATURE CITED

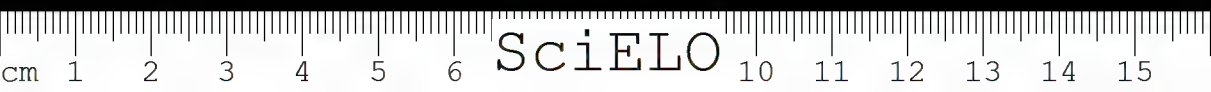
ALBUQUERQUE, D. DE OLIVEIRA

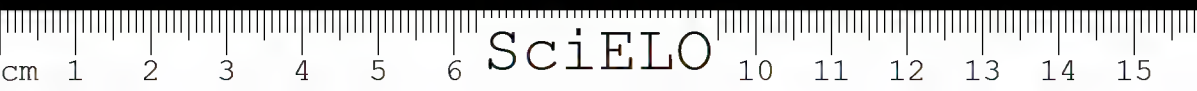
1953. Sobre um gênero e uma espécie nova de "Thyreophoridae" do Brasil (Diptera, Haplostomata). *Rev. Brasil. Biol.* 13(2):109-112, 5 figs.

1957. Descrição do alótipo fêmea de "*Bocainamyia necrophila*" Albuquerque, 1953 e considerações sobre o gênero (Diptera, Thyreophoridae). *Rev. Brasil. Biol.* 17:563-566, 5 figs.

BARBER, H. S.

1908. Note on *Omomyia hirsuta* Coquillett (Diptera, Phycodromidae). *Proc. Ent. Soc. Wash.* 9:28-29.





SciELO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

70

## FAMILY PALLOPTERIDAE

ANGELO PIRES DO PRADO

*Departamento de Parasitologia,  
Universidade Estadual de Campinas, São Paulo*

Pallopterids are a small family of medium-sized flies related to Lonchaeoidea and Tephritoidea (*sensu* Griffiths, 1972). The Neotropical species are poorly studied.

The habits of the species listed below are unknown; records from Europe and USA indicate that the larvae are carnivorous living under the bark of dead coniferous and deciduous trees, preying on the larvae of Cerambycidae and Scolytidae (Coleoptera) or on Cecidomyiidae larvae (Morge, 1956; 1967 and Teskey, 1976).

Ref.: Hennig, 1971.

## Genus AENIGMATOMYIA Malloch

AENIGMATOMYIA Malloch, 1933:344. Type-species, *unipuncta* Malloch (orig. des.).

UNIPUNCTA Malloch, 1933:344, text-fig. 66. Type-locality: Argentina, Bariloche. Distr. - Argentina (Bariloche; Lake Correntoso; Lake Nahuel Huapi); Chile (Casa Pangué; Puerto Varas); Tierra del Fuego (Rio Grande).

## Genus GAYOMYIA Malloch

GAYOMYIA Malloch, 1933:346. Type-species, *nigrohalterata* Malloch (orig. des.).

NIGROHALTERATA Malloch, 1933:347. Type-locality: Argentina, Lake Correntoso. Distr. - Argentina.

## Genus HELOPARIA Enderlein

HELOPARIA Enderlein, 1912:46. Type-species, *ekelofi* Enderlein (orig. des.).

*Neodryomyza* Hendel, 1914:151. Type-species, *lentiphora* Hendel (orig. des.).

BICOLOR (Walker), 1837:358 (*Sciomyza*). Type-locality: "Argentina". Distr. - Argentina (Bariloche; Puerto Blest; Lake Gutierrez; Lake Correntoso; Tierra del Fuego).

Ref.: Malloch, 1933:339, text-fig. 61.

*rufina* Bigot, 1888:37 (*Actora*). Type-locality: Cape Horn.

EKELOFI Enderlein, 1912:47. Type-locality: Falkland Islands. Distr. - Falklands Islands.

LENTIPHORA (Hendel), 1914:153, figs. 1-2 (*Neodryomyza*). Type-locality: Chile, Punta Arenas. Distr. - Chile. Ref.: Hennig, 1941:56, fig. 3, pl. 3, fig. 4.

## Genus HOMAROIDES Malloch

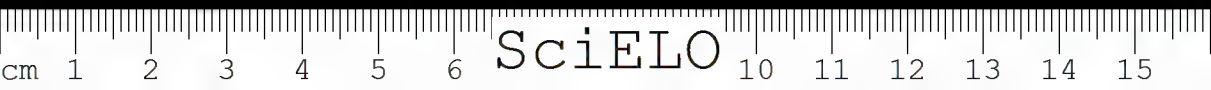
HOMAROIDES Malloch, 1933:341. Type-species, *spiniventris* Malloch (orig. des.).

SPINIVENTRIS Malloch, 1933:341, text-figs. 63-65. Type-locality: Argentina, Lake Nahuel Huapi, Puerto Sabino. Distr. - Argentina.

## Genus PSEUDOPYRGOTA Malloch

PSEUDOPYRGOTA Malloch, 1933:339. Type-species, *caudata* Malloch (orig. des.).

CAUDATA Malloch, 1933:340, text-fig. 62. Type-locality: Chile, Peulla. Distr. - Chile.





Genus SCIOCHTHIS Malloch

SCIOCHTHIS Malloch, 1933:381. Type-species, *uniseta* Malloch (orig. des.).

UNISETA Malloch, 1933:381, pl. 7, fig. 9. Type-locality: Argentina, Lake Correntoso. Distr. - Argentina.

LITERATURE CITED

BIGOT, J.M.F.

1988. *Mission Sci. du Cap. Horn*. Diptères. 6:1-45, 4 pls.

ENDERLEIN, G.

1912. Die Insekten des Antarkto-Archiplatea-Gebietes (Feuerland, Falklands-Inseln, Süd-Georgien). *K. Svenka Vetensk. Akad. Handl.* 48 (3): 1-170, 4 pls.

GRIFFITHS, G.C.D.

1972. *The phylogenetic classification of Diptera Cyclorrhapha, with special reference to the structure of the male postabdomen*. Dr. W. Junk, N.V., The Hague, 340 pp., 154 figs.

HENDEL, F.

1914. Neue amerikanische Dipteren. 2. *Deutsch Ent. Zeitschr.* 1914: 151-176, 16 figs.

HENNIG, W.

1941. Beiträge zur Kenntnis des Kopulationsapparates und der Systematik der Acaplyptraten. III. Pallopteridae, Thyreophoridae, Diopsidae, *Pseudopomyza*, *Pseudodinia*. *Arb. morphol. taxon. Ent. Berlin-Dahlem*, (8)(1):54-64, 1 pl., 14 figs.
1971. Neue Untersuchungen über die Familien der Diptera Schizophora (Diptera: Cyclorrhapha). *Stuttgart. Beitr. Naturk.* 226: 1-76, 108 figs.

MALLOCH, J.R.

1933. *Acalyptata*, pp. 177-391, figs. 36-68, pls. 2-7. In: British Museum (Natural History), *Diptera of Patagonia and South Chile Pt. 6*, Fasc. 4, 499 pp. 84 figs., 8 pls., London.

MORGE, G.

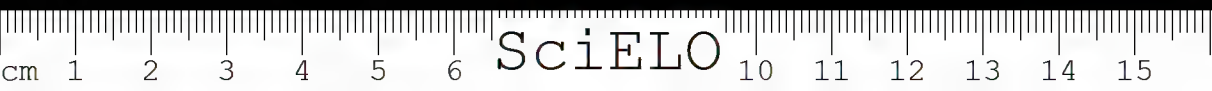
1956. Über Morphologie und Lebensweise der bisher unbekannten Larven von *Palloptera usta* Meigen, *P. ustulata* Fallén und *Stegana coleoptera* Scopoli. *Beitr. Ent.* 6: 124-137.
1967. Eine Beobachtung zur Grundfrage der Abhängigkeit von Wirkungsgrad und Wert natürlicher Funde gegenüber Schädlingen. *Beitr. Ent.* 17: 225-233.

TESKEY, H.J.

1972. Diptera larvae associated with trees in North America. *Mem. Ent. Soc. Canada* 100: 1-53, 104 figs.

WALKER, F.

1837. Descriptions, etc., of the insects collected by Cpt. P.P. King, R.N., F.R.S. in the Survey of the Straits of Magellan. Diptera. *Trans. Linn. Soc. London* 17: 331-339.



SUPERFAMILY MILICHIOIDEA

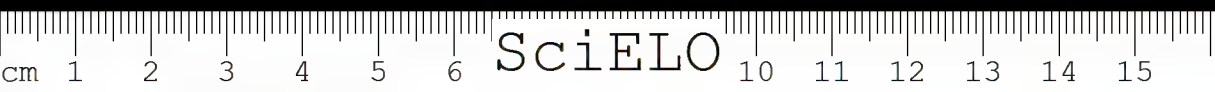
Family Sphaeroceridae

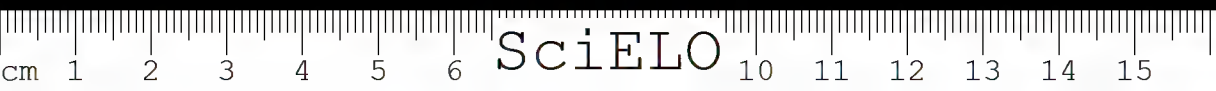
Family Braulidae

Family Tethinidae

Family Milichiidae

Family Canaceidae





DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A. CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

72

## FAMILY SPHAEROCERIDAE

(BORBORIDAE)

O. W. RICHARDS

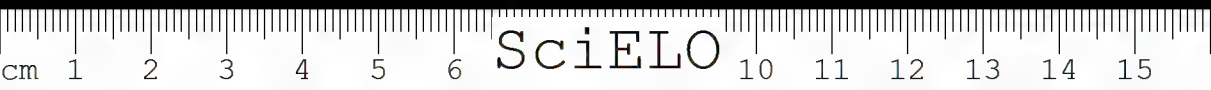
*Department of Zoology and Applied Entomology  
Imperial College  
South Kensington  
London, England*

The Sphaeroceridae is a family of about 300 species found in all parts of the world. Many species are cosmopolitan, probably introduced by man but perhaps also, in some cases, carried on wind currents. The early stages are little known but some description of them with an account of their biologies will be found in Goddard (1938), Hafez (1949), Hennig (1952), Hussey (1957), and Remmert (1955). The species all seem to breed in decaying animal or vegetable matter, either generally or in some specialised form, e.g., carrion, dung, compost or fungi. Among the more specialised habitats are the runs and nests of small mammals (many species, none so far neotropical), in dung of Scarabaeidae beetles (*Ceroptera*), with ants (*Homalomitra*), in seaweed (*Leptocera*, subg. *Thoracochaeta*). A number of species are wingless or brachypterous and these occur on islands (Kerguelen, Juan Fernandez) or in very wet forest (S. Chile).

There is no general revision of the family but a very important work is the paper by Duda (1925) dealing with *Leptocera*. Richards (1961b) deals with *Archiborborus* and Richards (1965a) with *Sphaerocera*. Duda in Lindner (1938) gives the general classification but this is far from having reached its final state; much more study of the male and female genitalia is required. At the present moment, it appears that at least four groups may be recognised:

- (i) *Copromyza* Fall. which hardly enters the neotropical region;
- (ii) *Archiborborus* Duda and its brachypterous or apterous derivatives, *Antrops* End., *Penola* Rich., *Frutillaria* Rich., *Siphlopteryx* End., *Anatalanta* Eaton; also perhaps *Fiebrigella* Duda; these genera are exclusively neotropical including the antarctic;
- (iii) *Sphaerocera* Latr. world-wide but with one exception only the exclusively American subgenus *Parasphaerocera* Spuler occurs in the region; also the derived *Homalomitra* Borgmeier;

72.1





(iv) the cosmopolitan *Ceroptera* Meig. and *Leptocera* Oliv. and the neotropical *Anomioptera* Schiner, *Archileptocera* Duda and probably also *Phthitia* End. and *Aptilotella* Duda.

#### Genus COPROMYZA Fallén

COPROMYZA Fallén, 1810:19. Type-species, *equina* Fallén (Zetterstedt, 1847:2745).

*Borborus*, authors, not Meigen.

#### Subgenus BORBORILLUS Duda

*Borborus*, subg. BORBORILLUS Duda, 1923:54. Type-species, *uncinatus* Duda (Richards, 1930:267).

LACTEIPENNIS (Malloch), 1913b:366 (*Borborus*). Type-locality: Mexico, Tamaulipas, Tampico. Distr. — Mexico (Tamaulipas).

#### Genus FIEBRIGELLA Duda

FIEBRIGELLA Duda, 1921:125, 143. Type-species, *verrucosa* Duda (mon.).

VERRUCOSA Duda, 1921:143. Type-locality: Paraguay, San Bernardino. Distr. Paraguay (San Bernardino).

#### Genus ARCHIBORBORUS Duda

ARCHIBORBORUS Duda, 1921:126. Type-species, *Borborus hirtipes* Macquart (Richards, 1930:267).

#### Subgenus ARCHIBORBORUS Duda

HIRTIPES (Macquart), 1843:424 (= 267), pl. 35, fig. 5 (*Borborus*). Type-locality: "Chile". Distr. — Uruguay (Montevideo), Argentina (Buenos Aires), Falkland Is., Chile (Arauco, Magallanes, Chiloe I.). Refs. — Gay, 1852:467; Duda, 1921:127, 1923b:111; Richards, 1931:65, pl. 1, fig. 1, 1941:323, 1961b:59, 1963:231.

*quinquemaculatus* Walker, 1849:1130 (*Borborus*). Type-locality: Uruguay, Montevideo.

MAXIMUS Richards, 1961b:59, fig. 1. Type-locality: Chile, Magallanes, Hda. Muñoz Garnero, lat. 55°S, (on seaweed). Distr. — Chile (Magallanes).

#### Subgenus PROCOPROMYZA Richards

*Archiborborus*, subg. PROCOPROMYZA Richards, 1931:67. Type-species, *albicans* Richards (orig. des.).

ALBICANS Richards, 1931:68, figs. 20a-b, pl. 1, fig. 3. Type-locality: Chile, Chiloe I., Ancud. Distr. — Argentina (Falkland Is.), Chile (Magallanes, Chiloe I., Mechuque I., Cape Horn).

*varipes* Bigot, 1888:42 (*Borborus*; preocc. Meigen, 1830). Type-locality: "Cape Horn". Refs. — Richards, 1941:324, 1961b:62.

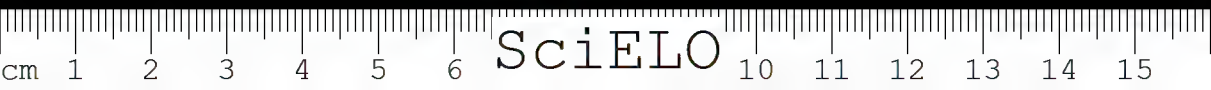
- ANNULATUS Richards, 1963:232, fig. 1. Type-locality: Chile, Ñuble, 40 km east of San Carlos. Distr. — Chile (Ñuble).
- CALCEATUS Duda, 1921:127, 138. Type-locality: Colombia, Sierra San Lorenzo. Distr. — Colombia (Sierra San Lorenzo).
- CHAEOTOSUS Richards, 1961b:60, fig. 2. Type-locality: Chile, Chiloe I., lat. 42°S, Chepu. Distr. — Chile (Chiloe I.).
- CHILENSIS Richards, 1931:71, pl. 1, fig. 5. Type-locality: Argentina, Neuquén, L. Correntoso. Distr. — Argentina (Neuquén, Rio Negro), Chile (Llanquihue, Bío-Bío). Ref. — Richards, 1963:231.
- EDWARDSI Richards, 1931:71. Type-locality: Chile, Llanquihue, Puerto Montt. Distr. — Chile (Llanquihue, Cautín, Osorno). Ref. — Richards, 1963:231.
- FEMORALIS (Blanchard), in Gay, 1852:467 (*Borborus*). Type-locality: Chile, La Serena. Unrecognized.
- HIRTUS (Bigot), 1888:41 (*Ceroptera*). Type-locality: "Cape Horn". Distr. — Chile (Magallanes, Pto. Eden, Cape Horn). Refs. — Richards, 1931:72, 1961b:61.
- KOENIGI Duda in Holdhaus, 1932:172. Type-locality: South Georgia Is. Distr. — South Georgia Is. Ref. — Richards, 1961b:58.
- MACULIPENNIS Duda, 1921:127, 133. Type-locality: Chile, Magallanes, Punta Arenas. Distr. — Chile (Magallanes). Refs. — Richards, 1931:73, 1961b:61.
- ORBITALIS Duda, 1921:127, 141. Type-locality: Peru, Puno; Bolivia, L. Titicaca, Cordillera, 4000-5000 m. Distr. — Peru (Cuzco, Puno), Bolivia (L. Titicaca, Cordillera). Ref. — Richards, 1961b:58.
- var. *latifrons* Duda, 1921:127, 143. Type-locality: Peru, Cuzco. Ref. — Richards, 1961b:58.
- QUADRINOTUS (Bigot), 1888:42 (*Ceroptera*). Type-locality: Chile, Magallanes, Cape Horn. Distr. — Chile (Magallanes, Cape Horn). Refs. — Richards, 1931:70, 1961b:61.
- SETOSUS Duda, 1921:127, 135. Type-locality: Bolivia, Cilluncitara. Distr. — Bolivia (Cilluncitara).
- SIMPLICIMANUS Richards, 1931:72. Type-locality: Argentina, Neuquén, L. Correntoso. Distr. — Argentina (Neuquén), Chile (Ñuble, Magallanes, Chiloe I.).
- SUBMACULATUS Duda, 1921:130 (as *submaculata*, p. 126). Type-locality: Chile, Magallanes, Punta Arenas. Distr. — Chile (Llanquihue, Chiloe I., Arauco, Magallanes), Juan Fernandez Is. (Masatierra I.). Refs. — Richards, 1931:70, pl. 1, fig. 4, 1955:75, 1961b:62, 1963:231.

#### Subgenus HUAPIA Richards

- Archiborborus*, subg. HUAPIA Richards, 1931:65. Type-species, *microphthalmalma* Richards (orig. des.).
- MICROPHTHALMA Richards, 1931:65, fig. 19, pl. 1, fig. 2. Type-locality: Argentina, Neuquén and Rio Negro, L. Nahuel Huapi (eastern end). Distr. — Argentina (Rio Negro, Neuquén).

#### Unplaced species of ARCHIBORBORUS

- NITIDICOLLIS (Becker), 1919:184 (*Olinia*). Type-locality: Ecuador, Tulcán, El Angel.



### Genus PYCNOTA Bezzi

PYCNOTA Bezzi, 1927:2. Type-species, *manni* Bezzi (orig. des.).

MANNI Bezzi, 1927:5, figs. 1-2. Type-locality: Bolivia, Beni, Huacha. Distr.  
— Bolivia (Beni).

### Genus ANTROPS Enderlein

ANTROPS Enderlein, 1909a:225. Type-species, *truncipennis* Enderlein (mon.).

TRUNCIPENNIS Enderlein, 1909a:228, 1 fig. Type-locality: Chile, Magallanes, Tierra del Fuego; South Georgia Is. Distr. — Falkland Is., South Georgia Is., Chile (Magallanes, Cape Horn). Refs. — Schaeffer, 1914:92; Richards, 1931:73; Séguy, 1940:244, fig. 87.

*nivalis* Bigot, 1888:43, pl. 4, fig. 7 (*Pteremis*; misidentification of *Limosina nivalis* Haliday). Type-locality: Chile, Magallanes, Cape Horn. Refs. — Gercke, 1889:153, 154, fig.; Enderlein, 1909b:394, 499.

### Genus FRUTILLARIA Richards

FRUTILLARIA Richards, 1961b:63. Type-species, *kuscheli* Richards (orig. des.).

Ref. — Richards, 1964a (key to spp.).

CALCEATA Richards, 1961b:67, figs. 10, 11. Type-locality: Chile, Llanquihue, lat. 41°12'S, Frutillar. Distr. — Chile (Llanquihue).

CHEPUENSIS Richards, 1961b:66, figs. 6, 7. Type-locality: Chile, Chiloe I., lat. 42°S, Chepu. Distr. — Chile (Chiloe I.).

EDENENSIS Richards, 1961b:67, figs. 8, 9. Type-locality: Chile, Chiloe I., lat. 42°S, San Pedro. Distr. — Chile (Chiloe I., Magallanes).

KUSCHELI Richards, 1961b:66, figs. 4, 5. Type-locality: Chile, Chiloe I., lat. 42°S, Chepu. Distr. — Chile (Chiloe I.).

PROPINQUA Richards, 1964a:44, figs. 3, 4. Type-locality: Chile, Aysén, L. de Buenos Aires. Distr. — Chile (Aysén).

STENOPTERA Richards, 1961b:67, figs. 12, 13. Type-locality: Chile, Llanquihue, lat. 41°12'S, Frutillar. Distr. — Chile (Llanquihue).

TENUFORCEPS Richards, 1964a:44, figs. 5, 6. Type-locality: Chile, Aconcagua, Zapallar. Distr. — Chile (Aconcagua).

TRIANGULARIS Richards, 1964a:44, figs. 1, 2. Type-locality: Chile, Concepción, Oca de Bio-Bío. Distr. — Chile (Concepción).

### Genus PENOLA Richards

PENOLA Richards, 1941:324. Type-species, *eudyptidis* Richards (orig. des.).

Ref. — Richards, 1951:844.

EUDYPTIDIS Richards, 1941:324, fig. 1. Type-locality: Falkland Is. Distr.  
— Falkland Is.

## Genus SPHAEROCERA Latreille

SPHAEROCERA Latreille, 1804:197. Type-species, *curvipes* Latreille (sub. mon., Latreille, 1805:394).

### Subgenus SPHAEROCERA Latreille

FLAVICEPS Malloch, 1925:120. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica (San Mateo).

### Subgenus PARASPHAEROCERA Spuler

*Sphaerocera*, subg. PARASPHAEROCERA Spuler, 1924c:67. Type-species, *bimaculata* Williston (orig. des.).

Ref. — Richards, 1965a (key to spp.).

AMPHORA Richards, 1965a:232, fig. 19. Type-locality: Ecuador, Chimborazo, Linje. Distr. — Ecuador (Chimborazo).

BIMACULATA Williston, 1896:435. Type-locality: West Indies, St. Vincent. Distr. — U.S.A. (Florida), Mexico, Costa Rica, B.W.I. (St. Vincent, Grenada). Refs. — Spuler, 1924c:68 (part); Malloch, 1925:121 (part); Richards, 1965a:230, fig. 15.

CHIMBORAZO Richards, 1965a:229, figs. 13-14. Type-locality: Ecuador, Chimborazo, Bugna. Distr. — Ecuador (Chimborazo).

DISSECTA Richards, 1965a:235. Type-locality: "Panama". Distr. — Panama.

ECUADORIA Richards, 1965a:225, figs. 2-7. Type-locality: Ecuador, Los Rios, Pichilingue, 40 m. Distr. — Ecuador (Los Rios, Guayas).

FLAVICONA Malloch, 1925:120. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica (San Mateo), Brazil (Rio de Janeiro).

GUTTULA Richards, 1965a:236, fig. 28. Type-locality: Panama, Canal Zone, Erwin I. Distr. — Panama (Canal Zone).

LEPIDA Richards, 1965a:234, figs. 24-25. Type-locality: Panama, Canal Zone, Fort Kobbe, Camarón. Distr. — Panama (Canal Zone).

LEVICASTILLI Richards, 1965a:230, figs. 16-17 (as *levi-castilli*). Type-locality: Ecuador, Chimborazo, Naranjapata, Chilicay. Distr. — Ecuador (Chimborazo).

MUSIPHILA Richards, 1965a:233, fig. 21. Type-locality: "Panama". Distr. — Panama.

PALLIPES Malloch, 1914b:31. Type-locality: Panama, Buena Ventura. Distr. — Panama (Buena Ventura). Ref. — Richards, 1965a:236.

SHANNONI Richards, 1965a:232, fig. 18. Type-locality: Venezuela, San Esteban. Distr. — Panama (Canal Zone), Venezuela (San Esteban).

TERTIA Richards, 1965a:228, figs. 11-12. Type-locality: Ecuador, Los Rios, Pichilingue. Distr. — Panama (Canal Zone), Costa Rica (San Mateo), Ecuador (Los Rios), Mexico (Vera Cruz).

TRANSVERSA Richards, 1965a:234. Type-locality: "Panama". Distr. — Panama.

TRANSVERSALIS Richards, 1965a:234, figs. 22-23. Type-locality: Ecuador, Guayas, Cuatro Hermanitos Experimental Farm. Distr. — Ecuador (Guayas).



- TRAPEZINA Richards, 1965a:226, figs. 8-10. Type-locality: Ecuador, Los Rios, Pichilingue. Distr. — Ecuador (Los Rios, Guayas).
- VARIPIES Malloch, 1925:121. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — U.S.A. (California, Georgia), Panama, Costa Rica, Galápagos Is. (Chatham I.). Ref. — Richards, 1965a:235, figs. 26-27.
- galapagensis* Curran, 1934:158. Type-locality: Galápagos Is., Chatham I.
- XIPHOSTERNUM Richards, 1965a:232, fig. 20. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica (San Mateo), Panama (Darien; Canal Zone).

#### Genus HOMALOMITRA Borgmeier

- HOMALOMITRA Borgmeier, 1931:30. Type-species, *ecitonis* Borgmeier (orig. des.).
- ECITONIS Borgmeier, 1931:30-37, 1 pl., 1 fig. Type-locality: Brazil, Goiás, Campinas (with *Eciton praedator* Smith). Distr. — Brazil (Goiás).

#### Genus ANOMIOPTERA Schiner

- ANOMIOPTERA Schiner, 1868:230. Type-species, *picta* Schiner (orig. des.).
- PICTA Schiner, 1868:230, pl. 3, figs. 2a-b. Type-locality: "Colombia" (but "Venezuela" on the label). Distr. — Venezuela (?). Ref. — Richards, 1966 (redescription).

#### Genus ARCHILEPTOCERA Duda

- ARCHILEPTOCERA Duda, 1920:436. Type-species, *luteonigripes* Duda (Richards, 1930:266).
- Archileptocera*, subg. *Lamprosomella* Duda, 1920:437. Type-species, *luteonigripes* (mon.).

#### Subgenus ARCHILEPTOCERA Duda

- LUTEONIGRIPES Duda, 1920:437, 441, fig. B. Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco).

#### Subgenus PALAEOCEROPTERA Duda

- Archileptocera*, subg. PALAEOCEROPTERA Duda, 1929:39. Type-species, *boliviensis* Duda (mon.).
- BOLIVIENSIS Duda, 1929:39, fig. 4. Type-locality: Bolivia, Santa Cruz, San José de Chiquitos. Distr. — Bolivia (Santa Cruz).

#### Subgenus HELLERELLA Duda

- Archileptocera*, subg. HELLERELLA Duda, 1920:436. Type-species, *decipiens* Duda (mon.).
- DECIPIENS Duda, 1920:437. Type-locality: Chile, Magallanes, Punta Arenas. Distr. — Chile (Magallanes).

### Subgenus PALAEOCOPRINA Duda

*Archileptocera*, subg. PALAEOCOPRINA Duda, 1920:436. Type-species, *geminiseta* Duda (mon.).

GEMINISETA Duda, 1920:436, 439, fig. A. Type-locality: Peru, Cuzco. Distr. — Peru (Cuzco).

### Subgenus PALAEOLIMOSINA Duda

*Archileptocera*, subg. PALAEOLIMOSINA Duda, 1920:437. Type-species, *nigrina* Duda (mon.).

NIGRINA Duda, 1920:437, 444, fig. C. Type-locality: Bolivia, Cordillera, 4000-5000 m.

### Genus PHTHITIA Enderlein

PHTHITIA Enderlein, 1938:600. Type-species, *venosa* Enderlein (orig. des.).  
*Pterodrepana* Enderlein, 1938:651. Type-species, *selkirki* Enderlein (orig. des.).

ALEXANDRI Richards, 1955:85, figs. 8, 10. Type-locality: Juan Fernandez Is., Masatierra I. Distr. — Juan Fernandez Is. (Masatierra I.).

SELKIRKI (Enderlein), 1938:652, figs. 10-13 (*Pterodrepana*). Type-locality: Juan Fernandez Is., Masatierra I. Distr. — Juan Fernandez Is. (Masatierra I.). Ref. — Richards, 1955:83, figs. 7-9.

VENOSA Enderlein, 1938:657, figs. 7-9. Type-locality: Juan Fernandez Is., Masatierra I. Distr. — Juan Fernandez Is. (Masatierra I.). Ref. — Richards, 1955:82, fig. 6.

### Genus APTILOTELLA Duda

APTILOTELLA Duda, 1924:74. Type-species, *borgmeieri* Duda (mon.).

BORGMEIERI Duda, 1924:74-76, fig. Type-locality: Brazil, Rio de Janeiro, ?Petrópolis. Distr. — Brazil (Rio de Janeiro).

### Genus CEROPTERA Macquart

CEROPTERA Macquart, 1835:564. Type-species, *Borborus rufitarsis* Meigen (mon.).

BREVIFRONS (Duda), 1925:138, fig. 119 (*Leptocera*). Type-locality: Paraguay, Boquerón, Chaco. Distr. — Paraguay (Boquerón). Ref. — Vanschuytbroeck, 1945:12.

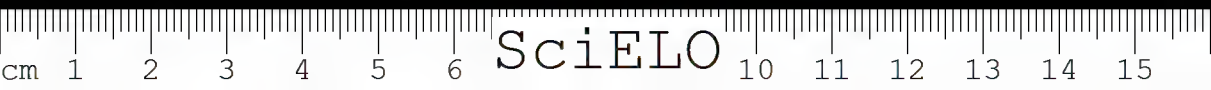
VENEZOLANA Richards, 1963:232 (as *venozolana*). Type-locality: Venezuela, Estado Portuguesa, Guanace. Distr. — Venezuela (Portuguesa).

### Genus LEPTOCERA Olivier

LEPTOCERA Olivier, 1813:489. Type-species, *nigra* Olivier (mon.).

*Limosina*, subg. *Paracollinella* Duda, 1924a:116. Type-species, *Copromyza fontinalis* Fallén (Richards, 1930:267).

*Skottsbergia* Enderlein, 1938:650. Type-species, *cultellipennis* Enderlein (orig. des.).



# Subgenus LEPTOCERA Olivier

- ABDOMINISETA (Duda), 1925:52 (*Paracollinella*). Type-locality: Paraguay; Brazil, Santa Catarina, Blumenau; Chile, Tacna and Arica; Peru, Mollendo; Bolivia, Sorata, 2300 m. Distr. — Bolivia, Brazil, Paraguay, Chile, Argentina, Peru, Tristan da Cunha I.; Hawaii. Refs. — Duda, 1929:34; Richards, 1931:82, 1952:430; Frey, 1954:34.
- AEQUILIMBATA Duda, 1925:58. Type-locality: Bolivia; Peru. Distr. — Bolivia, Peru. (Perhaps a form of *L. (L.) caenosa* Rondani, *q. v.*).
- CAENOSA (Rondani), 1880:38 (*Limosina*). Type-locality: "Italy". Distr. — Europe, Azores, Belgian Congo, Canada; South America; New Zealand, South Shetlands. Refs. — Duda, 1938:85, pl. 2, fig. 13 (*L. (L.) aequilimbata* Duda is perhaps a synonym); Richards, 1941:323.
- CUTTELLIPENNIS (Enderlein), 1938:650, figs. 2-6 (*Skottsbergia*). Type-locality: Juan Fernandez Is., Masatierra I. Distr. — Juan Fernandez Is. (Masatierra I.). Ref. — Richards, 1955:78, fig. 4.
- CURVINERVIS (Stenhammar), 1854:406 (*Limosina*). Type-locality: Sweden, Öland. Distr. — Europe, Kerguelen Is., cosmopolitan. Ref. — Séguy, 1954:610.
- DISCALIS (Malloch), 1912:8 (*Limosina*; nom. nov. for *scutellaris* Williston). Type-locality: B.W.I., St. Vincent. Distr. — B.W.I. (St. Vincent, Grenada), Costa Rica, Puerto Rico, Galápagos Is. (Charles I.). Refs. — Spuler, 1924a:116; Curran, 1928:69, 1934:158.
- scutellaris* Williston, 1896:432 (*Limosina*; preocc. Haliday, 1836). Type-locality: B.W.I., St. Vincent.
- DOLOROSA (Williston), 1896:432 (*Limosina*). Type-locality: B.W.I., St. Vincent. Distr. — B.W.I. (St. Vincent). Refs. — Spuler, 1924a:115; Richards, 1961b:563.
- DUPLICATA Richards, 1955:75, fig. 1. Type-locality: Juan Fernandez Is., Masatierra I., Plazoleta del Yunque, 200 m. Distr. — Juan Fernandez Is. (Masatierra I.).
- ELLIPSIPENNIS Richards, 1955:76, figs. 2-3. Type-locality: Juan Fernandez Is., Masatierra I., Plazoleta del Yunque, 200 m. Distr. — Juan Fernandez Is. (Masatierra I.).
- ERYTHROCERA (Becker), 1919:183 (*Limosina*). Type-locality: ?Ecuador, Casitagua. Distr. — Ecuador (Casitagua). (Subgenus doubtful).
- FONTINALIS (Fallén), 1826:16 (*Copromyza*). Type-locality: "Sweden". Distr. — Europe, Mediterranean, Belgian Congo, North and South America (Bermuda, Costa Rica). Refs. — Johnson, 1913:449; Malloch, 1914a:21; Duda, 1938:87, fig. 10.
- FULVA (Malloch), 1912:4 (*Limosina*). Type-locality: Panama, Canal Zone, Tabernilla. Distr. — Costa Rica, Panama, Colombia, Peru, Brazil, Ecuador, Paraguay. Refs. — Malloch, 1914a:15; Spuler, 1924a:116; Duda, 1925:53; Richards, 1963:234.
- FUSCINERVIS (Malloch), 1912:6 (*Limosina*). Type-locality: Panama, Canal Zone, Tabernilla. Distr. — Costa Rica, Panama. Refs. — Malloch, 1914a:22; Duda, 1925:36 (footnote). (See also *L. (Rachispoda) ruficornis* Duda).
- fusinervis* Spuler, 1924a:111 (*lapsus*).
- MENDOZANA Richards, 1931:82. Type-locality: Argentina, Mendoza. Distr. — Argentina (Mendoza).

- NEOCURVINERVIS Richards, 1931:74, pl. 1, fig. 6. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I., Llanquihue, Osorno, Santiago, Arauco, Talca, Ñuble, Magallanes), Argentina (Rio Negro). Refs. — Richards, 1961b:63, 1963:234.
- SCHLINGERI Richards, 1963:235, figs. 2, 3a-b. Type-locality: Ecuador, Napo-Pastaza, 6-8 miles west of Mera, 1500 m. Distr. — Ecuador (Napo-Pastaza).

### Subgenus RACHISPODA Lioy

- RACHISPODA Lioy, 1864:1116 (as genus). Type-species, *Copromyza limosa* Fallén (mon.).
- Limosina*, subg. *Collinella* Duda, 1918:13, 27, 28 (as *Colinella*; preocc. Schmidt, 1879). Type-species, *Copromyza limosa* Fallén (Richards, 1930:266).
- Leptocera*, subg. *Collinellula* Strand, 1928:49 (nom. nov. for *Collinella* Duda). Type-species, *Copromyza limosa* Fallén (aut.).
- AEQUIPILOSA (Duda), 1925:34 (*Collinella*). Type-locality: Paraguay, Asunción; Brazil, Rio Grande do Sul; Chile, Talcahuano. Distr. — Colombia (Valle), Peru (Pucalba), Bolivia, Chile, Brazil, Paraguay. Refs. — Duda, 1929:34; Richards, 1963:236.
- ATRA (Adams), 1903:223 (*Limosina*). Type-locality: U.S.A., Kansas. Distr. — U.S.A., Mexico (D.F.). Ref. — Sabrosky, 1949:9, fig. 11.
- AUSTRALIS (Brèthes), 1920:44 (*Limosina*). Type-locality: Chile, Rio Blanco. (Subgenus doubtful).
- BIPILOSA Duda, 1925:43. Type-locality: Bolivia, La Paz, Mapiri, Lorenzopata. Distr. — Colombia (Cundinamarca, Meta, Nariño, Valle), Bolivia (La Paz). Ref. — Richards, 1963:236.
- BREVISETA Malloch, 1914a:23. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica (Cartago).  
*brevista* Spuler, 1924a:113 (*lapsus*).
- DECIMSETOSA Richards, 1931:83. Type-locality: Uruguay, Montevideo. Distr. — Uruguay (Montevideo).
- DIVERGENS (Duda), 1925:44 (*Collinella*). Type-locality: Peru, Juliaca, Arequipa, Sicuaní, Cuzco (3300-3400 m), Tarnia (3000 m); Bolivia, Guaqui, L. Titicaca; Chile, Punta Arenas, Palca; Argentina, San Julián. Distr. — Peru, Chile, Juan Fernandez Is., Argentina, Bolivia. Refs. — Richards, 1931:77, 1955:79.  
*divergeus* Duda, 1929:34 (*lapsus*).
- ENSENADA Richards, 1931:76, pl. 1, fig. 7. Type-locality: Argentina, Buenos Aires, Ensenada. Distr. — Uruguay (Montevideo), Argentina (Rio Negro, Neuquén), Chile (Chiloe I., Santiago).
- LIMBINERVIS (Duda), 1925:33 (*Collinella*). Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Mexico (Nuevo León, Colima, San Luis Potosí), Costa Rica (La Suiza de Turrialba). Ref. — Richards, 1963:236.
- MACULINEA Richards, 1965b:121 (nom. nov. for *maculipennis* Duda). Type-locality: Paraguay, San Bernardino. Distr. — Paraguay (San Bernardino).  
*maculipennis* Duda, 1925:39, fig. 3 (*Collinella*; preocc. Spuler, 1925). Type-locality: Paraguay, San Bernardino.



- MARGINALIS Malloch, 1914a:22. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica. Ref. — Spuler, 1924a:112.
- M-NIGRUM (Malloch), 1912:7 (*Limosina*). Type-locality: Panama, Canal Zone, Paraiso and Tabernilla. Distr. — Jamaica, Costa Rica, Panama (Canal Zone). Refs. — Malloch, 1914a:23; Spuler, 1924a:114; Duda, 1925:36.
- MULTISETOSA (Duda), 1925:48 (*Collinella*). Type-locality: Paraguay, Boquerón, Chaco. Distr. — Paraguay, Argentina (Buenos Aires). Ref. — Richards, 1931:83.
- PARAGUAYENSIS (Duda), 1925:29, fig. 1 (*Collinella*). Type-locality: Paraguay, Boquerón, Chaco. Distr. — Paraguay (Boquerón).
- PLURISETA (Duda), 1925:45 (*Collinella*). Type-locality: Chile, Magallanes, Punta Arenas; Bolivia, La Paz, Guaqui, L. Titicaca. Distr. — Bolivia (La Paz), Chile (Magallanes, Rio Negro). Ref. — Richards, 1931:77.
- ROSSI Richards, 1963:237, figs. 4-5. Type-locality: Chile, Cautín, 20 miles east of Temuco. Distr. — Chile (Cautín, Arauco).
- RUFICORNIS (Duda), 1925:41 (*Collinella*). Type-locality: "Tambillo" (perhaps Ecuador, Pichincha). Distr. — Panama.  
*?fuscinervis* of Malloch, 1912:6.  
*fusinervis* Spuler, 1924a:111 (*lapsus*).
- SCHILD Spuler, 1924b:111, fig. 9. Type-locality: "Costa Rica". Distr. — Costa Rica.
- SPULERI Sabrosky, 1949:8. Type-locality: U.S.A., Louisiana. Distr. — U.S.A. (California to Michigan, south to Louisiana and Maryland), Mexico (Vera Cruz).  
*trochanteratus* Spuler, 1924a:112, fig. 13 (misident.; *nec* Malloch, 1913b).
- STRIATA (Duda), 1925:52 (*Collinella*). Type-locality: Chile, Santiago, Los Andes, 800 m. Distr. — Chile (Santiago, Chiloe I., Llanquihue, Coquimbo, Aconcagua, Ñuble, Bio-Bio), Argentina (Neuquén, Rio Negro). Refs. — Richards, 1931:75, pl. 1, figs. 8-10, 1963:236.
- TRIGONATA Spuler, 1924a:109, fig. 4. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

#### Subgenus ARCHICOLLINELLA Duda

- Leptocera*, subg. ARCHICOLLINELLA Duda, 1925:64. Type-species, *caerulea* Duda (Richards, 1930:269).
- CAERULEA Duda, 1925:65, fig. 4. Type-locality: Chile, Antofagasta. Distr. — Chile (Antofagasta).

#### Subgenus OPACIFRONS Duda

- Limosina*, subg. OPACIFRONS Duda, 1918:28. Type-species, *coxata* Stenhammar (Spuler, 1924b:121).
- CARTAGENSIS Malloch, 1914a:17. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica. Refs. — Spuler, 1924b:126; Duda, 1925:197.
- IMPUDICA Duda, 1925:70. Type-locality: Peru, Cuzco, 3200-4200 m. Distr. — Peru (Cuzco).

### Subgenus THORACOAETA Duda

- Limosina*, subg. THORACOAETA Duda, 1918:32. Type-species, *Borborus zosterae* Haliday (Spuler, 1925b:120).
- ANCUDENSIS Richards, 1931:78, pl. 1, fig. 11. Type-locality: Chile, Chiloe I., Ancud. Distr. — Chile (Chiloe I.).
- ARNAUDI Richards, 1963:239, fig. 6. Type-locality: Mexico, Baja California, San Bartolomé. Distr. — Mexico (Baja California).
- BRACHIYSTOMA (Stenhammar), 1854:393 (1855:135) (*Limosina*). Type-locality: "Sweden". Distr. — Europe, Egypt, Azores, Canaries, Tristan da Cunha, Seychelles, Congo (Léopoldville), New Zealand; Peru (Lima), Argentina (Chubut), Chile (Chiloe I.), Juan Fernandez Is. (Masatierra and Masafuera). Refs. — Duda, 1925:198; Richards, 1931:78, 1955:79.
- JOHNSONI Spuler, 1925b:121, fig. 2. Type-locality: U.S.A., Washington (on seaweed). Distr. — U.S.A. (Washington), Mexico (Baja California), Chile (Santiago, Chiloe I., Magallanes). Refs. — Richards, 1931:78, 1961b:63, 1963:238.

### Subgenus CHAETOPODELLA Duda

- Leptocera*, subg. CHAETOPODELLA Duda, 1920:435. Type-species, *Limosina scutellaris* Haliday (mon.).
- Gyretria* Enderlein, 1938:652. Type-species, *binodatipes* Enderlein (orig. des.) = *melanogaster* (Thomson).
- Alma* Duda, 1938:5, 95 (preocc. Grube, 1855). Type-species, *Leptocera (Chaetopodella) biseta* Duda (mon.).
- BISETA Duda, 1925:149, figs. 21, 22. Type-locality: Paraguay, La Cordillera, San Bernardino, Asunción; Bolivia, La Paz, Mapiri. Distr. — Bolivia (La Paz), Paraguay (La Cordillera, Asunción), Argentina (Salta). Ref. — Duda, 1929:34.
- MELANOGASTER (Thomson), 1869:603 (*Limosina*). Type-locality: Argentina, Buenos Aires. Distr. — Paraguay, Uruguay, (Montevideo), Argentina (Salta, Buenos Aires, Rio Negro), Chile (Santiago, Coquimbo, Arauco), Juan Fernandez Is. Ref. — Richards, 1963:238.
- pulchripes* Duda, 1925:151, fig. 23. Type-locality: "Paraguay". Refs. — Duda, 1929:34; Richards, 1955:80, fig. 5.
- var. *griseithorax* Richards, 1931:79. Type-locality: Argentina, Buenos Aires.
- binodatipes* Enderlein, 1938:655, figs. 14-16 (*Gyretria*). Type-locality: Juan Fernandez Is., Masatierra I.
- RECTANGULARIS Malloch, 1914a:19. Type-locality: Costa Rica, Juan Viñas, 3300 feet. Distr. — Costa Rica. Refs. — Spuler, 1925a:151 (probably); Duda, 1925:147.
- TONSA Duda, 1925:148 (nom. nov. for *regularis* Duda). Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica.
- regularis* Duda, 1925:147 (preocc. Malloch, 1914a). (See subgenus *Limosina*).

### Subgenus ACUMINISETA Duda

- Acuminiseta* Duda, 1920:435. *Nomen nudum*.
- Leptocera*, subg. ACUMINISETA Duda, 1925:76, 119. Type-species, *Limosina pallidicornis* Villeneuve (Richards, 1930:268).

PROMINENS Duda, 1925:124, fig. 16. Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Paraguay (La Cordillera).

#### Subgenus POECILOSOMELLA Duda

*Poecilosomella* Duda, 1920:435. *Nomen nudum*.

*Leptocera*, subg. POECILOSOMELLA Duda, 1925:78. Type-species, *Copromyza punctipennis* Wiedemann (Richards, 1930:268).

ANGULATA (Thomson), 1869:602 (*Limosina*). Type-locality: "Brazil". Distr. — Africa, Madagascar, Teneriffe, Cape Verde Is., Bermuda, Mexico, W.I. (St. Vincent), Cuba, Haiti, Puerto Rico, San Domingo, Dominican Republic, Colombia, Peru, Brazil, Paraguay; Hawaii. Refs. — Duda, 1925:93, fig. 11; Curran, 1928:69; Richards, 1961a:53-63.

*renalicia* Osten Sacken, 1878:263 (*Borborus*). Type-locality: "Cuba". Refs. — Williston, 1896:434, fig. 163; Malloch, 1914a:11.

#### Subgenus PTEROGRAMMA Spuler

*Leptocera*, subg. PTEROGRAMMA Spuler, 1923:376. Type-species, *Leptocera sublugubrina* Malloch (part; misident.) (orig. des.) = *substituta* Richards.

*Mallochella* Duda, 1925:75, 103. Type-species, *Limosina sublugubrina* Malloch (Richards, 1930:268).

COSTALIS (Becker), 1919:182, pl. 15, fig. 7 (*Limosina*). Type-locality: Ecuador, Azuay, Cuenca. (Subgenus doubtful).

INCONSPICUA Malloch, 1914a:16. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica, Brazil (Santa Catarina). Refs. — Duda, 1925:116; Spuler, 1925a:82(?).

LUXOR Spuler, 1925b:101, fig. 9. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

MADARIS Spuler, 1925b:102, fig. 8. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).

MERIDIONALIS Malloch, 1914a:16. Type-locality: Costa Rica, Alhajuela. Distr. — Costa Rica. Refs. — Spuler, 1925b:102; Duda, 1925:107.

MONTICOLA Malloch, 1914a:14, fig. 10. Type-locality: Costa Rica, Juan Viñas. — Distr. — Costa Rica. Refs. — Spuler, 1925b:101; Duda, 1925:114.

ORTHONEURA Spuler, 1925b:102. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica.

OVIPENNIS (Duda), 1925:115, fig. 15 (*Mallochella*). Type-locality: Paraguay, La Cordillera, San Bernardino; Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica, Paraguay.

PARAMERIDIONALIS (Duda), 1925:108 (*Mallochella*). Type-locality: Brazil, Santa Catarina. Distr. — Brazil (Santa Catarina).

PERPARVA (Williston), 1896:433, figs. 161, 161a (*Limosina*). Type-locality: W.I., St. Vincent. Distr. — W.I. (St. Vincent). Refs. — Duda, 1925:119; Richards, 1961a:563.

*perparvi* Spuler, 1925a:83 (*lapsus*).



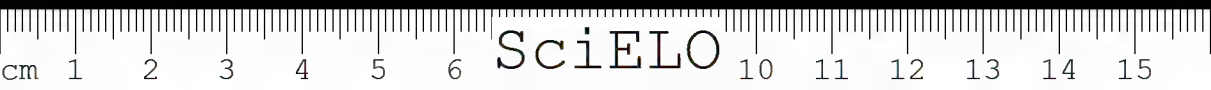
- POECILOPTERA Malloch, 1914a:11, fig. 8. Type-locality: Costa Rica, Juan Viñas. Distr. — Costa Rica. Refs. — Spuler, 1925b:101; Duda, 1925:108.
- SIMPLICICRUS (Duda), 1925:112 (*Mallochella*). Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Paraguay (La Cordillera).
- SUBLUGUBRINA (Malloch), 1912:8 (*Limosina*; nom. nov. for *lugubris* Williston). Type-locality: W.I., St. Vincent. Distr. — W.I. (St. Vincent), Puerto Rico (Utuado). Refs. — Richards, 1961a:563, 1964b:611. (Specimens of "*L. sublugubrina*" recorded from the U.S.A. are really *L. palliceps* Johnson, 1915).
- lugubris* Williston, 1896:433, fig. 162 (*Limosina*; preocc. Haliday, 1836). Type-locality: W.I., St. Vincent (description and figure, but not specimen in British Museum now marked as type).
- SUBSTITUTA Richards, 1961a:563 (nom. nov. for *sublugubrina* Spuler). Type-locality: Puerto Rico, Utuado. Distr. — Puerto Rico (Utuado). Ref. — Richards, 1964b:612.
- sublugubrina* Malloch of Spuler, 1925b:103.
- SUBSTRIATA (Duda), 1925:109 (*Mallochella*). Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- SYLVICOLA Richards, 1965b:121 (nom. nov. for *lugubrina* Malloch). Type-locality: Puerto Rico, Aguadilla. Distr. — Puerto Rico.
- lugubrina* Malloch, 1913b:369 (*Limosina*; preocc. Zetterstedt, 1847). Type-locality: Puerto Rico, Aguadilla. Refs. — Spuler, 1925b:103; Duda, 1925:114.
- VITTATA Malloch, 1914a:12, fig. 7. Type-locality: Costa Rica, Juan Viñas. Distr. — Costa Rica. Refs. — Spuler, 1925b:101; Duda, 1925:111.

#### Subgenus BROMELOECIA Spuler

- Leptocera*, subg. BROMELOECIA Spuler, 1923:375. Type-species, *Limosina bromeliarum* Knab & Malloch (orig. des.).
- BROMELIARUM (Knab & Malloch), 1912:413, 1 fig. (*Limosina*). Type-locality: Mexico, Córdoba (bred from leaves of an epiphytic bromeliad). Distr. — Mexico, Costa Rica. Refs. — Malloch, 1914a:16 (bred from folded leaves of *Heliconia mariae*); Spuler, 1925b:119; Duda, 1925:144.

#### Subgenus LIMOSINA Macquart

- LIMOSINA Macquart, 1835:571 (as genus). Type-species, *Borborus silvaticus* Meigen (Westwood, 1840:154).
- Limosina*, subg. *Scotophilella* Duda, 1918:34, 104. Type-species, *Borborus silvaticus* Meigen (Duda, 1924:6).
- Leptocera*, subg. *Spelobia* Spuler, 1923:376. Type-species, *Limosina tenebrarum* Aldrich (orig. des.).
- Leptocera*, subg. *Americaptilotus* Richards, 1951:845. Type-species, *Aptilotus borealis* Malloch (orig. des.).
- Aptilotus*, Amer. authors, not Mik.
- BISECTA Malloch, 1914a:20. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica. Refs. — Spuler, 1925a:155; Duda, 1925:197.
- BOLIVIENSIS Duda, 1925:169, fig. 24. Type-locality: Bolivia, Soccata. Distr. — Bolivia (Soccata).





- CHILENICA Duda, 1925:147. Type-locality: Peru, Cuzco; Chile, Magallanes, Punta Arenas. Distr. — Peru (Cuzco), Argentina (Neuquén, Río Negro), Chile (Llanquihue, Magallanes). Ref. — Richards, 1931:81.
- CONSANGUINEA (Blanchard), in Gay, 1852:468 (*Limosina*). Type-locality: Chile, Coquimbo. (Subgenus doubtful).
- CURVITARSIS Duda, 1925:167. Type-locality: Brazil, Santa Catarina, Blumenau. Distr. — Brazil (Santa Catarina).
- DARWINI Richards, 1931:80, pl. 1, fig. 12. Type-locality: Argentina, Río Negro, Bariloche. Distr. — Argentina (Río Negro), Chile (Llanquihue, Concepción, Magallanes, Valparaíso, Valdivia, Cautín, Biobío, Ñuble), Juan Fernández Is. (Masafuera I.). Refs. — Richards, 1955:80, 1961b:63, 1963:245.
- crassicosta* Enderlein, 1938:654, figs. 17-18 (*Gyrettria*). Type-locality: Juan Fernández Is., Masatierra I.
- DOLICHOPTERA Richards, 1963:20, figs. 7-8. Type-locality: Peru, Lima, N.W. Caneto. Distr. — Peru (Lima).
- ELEGANS Spuler, 1925a:149, fig. 17. Type-locality: Bermudas. Distr. — U.S.A., Bermudas.
- EMPIRICA (Hutton), 1901:94 (*Limosina*). Type-locality: "New Zealand". Distr. — Europe, Iceland, Canada, New Zealand; Juan Fernández Is. (Masatierra I.), Falkland Is. Ref. — Harrison, 1959:270, figs. 305, 313, 321.
- pectinifera* Villeneuve, 1917:333 (*Limosina*). Type-locality: France, Rambouillet. Refs. — Duda, 1925:175; Richards, 1941:323, 1955:80.
- cadaverina* Duda, 1918:130, pl. 5, fig. 34 (*Limosina*). Type-locality: Austria, Vienna.
- FLAVIPES (Meigen), 1830:208 (*Borborus*). Type-locality: "Europe". Distr. — Europe, Canary Is., New Zealand; ?Ecuador, Juan Fernández Is. (Masatierra I.). Refs. — Meigen, 1838:409; Duda, 1938:122, pl. 5, fig. 44; Richards, 1955:81.
- minutissima* Zetterstedt, 1847:2505 (*Limosina*). Type-locality: "Sweden". Ref. — Becker, 1919:183.
- retracta* Rondani, 1880:21, 27 (*Limosina*). Type-locality: "Italy". Ref. — Duda, 1925:181.
- FUSCA Duda, 1925:191, fig. 28. Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Paraguay (La Cordillera).
- GIBBA Spuler, 1925a:154, fig. 8. Type-locality: "Jamaica". Distr. — Jamaica.
- INAEQUALIS Malloch, 1914a:21. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica. Ref. — Duda, 1925:197. (Subgenus doubtful).
- LONGIPENNIS Duda, 1925:178, fig. 26. Type-locality: Bolivia, La Paz, Guaqui. Distr. — Bolivia (La Paz).
- MEDIOSPINOSA Duda, 1925:182, fig. 27. Type-locality: Transvaal, Pretoria; Australia, Botany Bay; Chile, Santiago. Distr. — Australia (Sydney), Congo (Léopoldville), Union of S. Africa, New Zealand; South Shetland Is., Argentina (?Salta, Buenos Aires). Refs. — Duda, 1929: 35; Richards, 1931:84, 1941:323, 1955:81.
- MINIMELLA Richards, 1965b:121 (nom. nov. for *minima* Malloch). Type-locality: Costa Rica, Río Tempisque, Filadelfia. Distr. — Costa Rica.
- minima* Malloch, 1914a:16 (*Limosina*; preocc. Macquart, 1835). Type-locality: Costa Rica, Río Tempisque, Filadelfia. Refs. — Spuler, 1925a:147; Duda, 1925:107.

- MOLLIS Richards, 1963:243, figs. 12-14. Type-locality: Honduras, Brus Lagoon. Distr. — Honduras (Brus Lagoon).
- NIVEIPENNIS (Malloch), 1913b:370 (*Limosina*). Type-locality: Puerto Rico, Mayaguez. Distr. — Puerto Rico. Refs. — Spuler, 1925a:147; Duda, 1925:119 (possibly belongs to subgenus *Pterogramma*).
- ORBICULARIS (Becker), 1919:182, pl. 16, fig. 6 (*Limosina*). Type-locality: Ecuador, Cuenca. (Subgenus doubtful).
- PALLICORNIS Malloch, 1914:15, fig. 6. Type-locality: Costa Rica, Juan Viñas. Distr. — Costa Rica. Refs. — Spuler, 1925a:83; Duda, 1925:197.
- PARAMINIMA Duda, 1925:170. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica (La Suiza de Turrialba).
- PARAMOESTA Duda, 1925:194, fig. 30. Type-locality: Bolivia, La Paz, Mapiri, Sarampiuni, 700 m; Peru, Pasco, Pichis road. Distr. — Peru, Bolivia, Argentina.
- ?*analis* Duda, 1929:36, fig. 3. Type-locality: Argentina, Salta, Aguari.
- PHYCOPHILA Richards, 1963:241, figs. 9-11. Type-locality: Chile, Santiago, El Tabo (on seaweed). Distr. — Peru (Lima), Chile (Santiago).
- PLUMBEA Duda, 1925:177, fig. 15. Type-locality: Peru, Cuzco, 3200-3600 m. Bolivia, La Paz, 2000-3000 m. Distr. — Peru, Bolivia.
- PLUMISETA Duda, 1925:185. Type-locality: "Paraguay". Distr. — Paraguay.
- ?*caudata* Duda, 1929:35, fig. 2. Type-locality: Paraguay, La Cordillera, near Asunción.
- PLUMOSULA (Rondani), 1880:27 (*Limosina*). Type-locality: "Italy". Distr. — Europe, Canary Is., Madeira, Azores, Ethiopia, Congo (Léopoldville); Ecuador (Cuenca, Tulcán, Yuasai). Ref. — Becker, 1919:181, pl. 15, fig. 6 (identification dubious).
- PROPULSA Duda, 1925:171. Type-locality: Paraguay, La Cordillera, San Bernardino. Distr. — Paraguay (La Cordillera).
- PUMILA (Williston), 1896:432, fig. 160 (*Limosina*). Type-locality: W.I., St. Vincent. Distr. — W.I. (St. Vincent), Puerto Rico. Refs. — Spuler, 1925a:151; Curran, 1928:69.
- QUADRISETOSA Malloch, 1914a:18. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica. Refs. — Spuler, 1925a:155; Duda, 1925:197.
- REGULARIS Malloch, 1914a:19. Type-locality: Costa Rica, Juan Viñas. Distr. — Costa Rica. Ref. — Spuler, 1925a:151. (See also *L. (Chaetopodella) tonsa* Duda).
- ROTUNDIPENNIS (Malloch), 1913b:370 (*Limosina*). Type-locality: Puerto Rico, Culebra I. Distr. — Puerto Rico. Refs. — Spuler, 1925a:119; Duda, 1925:119 (?).
- VARICOSTA (Malloch), 1914a: fig. 7 (*Limosina*). Type-locality: Costa Rica, Alhajuela. Distr. — U.S.A. (Maryland), Mexico (Vera Cruz), Costa Rica, Puerto Rico. Refs. — Spuler, 1925a:76; Duda, 1925:176.

#### Subgenus TRACHYOPELLA Duda

- Trachyops* Rondani, 1880:24 (preocc. Dallas, 1851). Type-species, *Limosina melania* Haliday (orig. des.).
- Limosina*, subg. TRACHYOPELLA Duda, 1918:34, 195. Type-species, *Limosina melania* Haliday (Spuler, 1925b:103).
- HYALINERVIS Duda, 1925:201. Type-locality: Paraguay, Boquerón, Chaco. Distr. — Paraguay (Boquerón).

# Subgenus COPROICA Rondani

*Heteroptera* Macquart, 1835:570 (preocc. Rafinesque, 1814). Type-species, *Limosina pusilla* Meigen (mon.; misident.) = *acutangula* (Zetterstedt).

COPROICA Rondani, 1861:10 (as genus; nom. nov. for *Heteroptera* Macquart). Type-species, *Limosina pusilla* Meigen (aut.; misident.) = *acutangula* (Zetterstedt).

*Limosina*, subg. *Coprophila* Duda, 1918:45. Type-species, *Borborus vagans* Haliday (Spuler, 1925b:122).

Ref. — Richards, 1960 (revision of spp.).

CACTI Richards, 1960:203, fig. 4. Type-locality: U.S.A., Arizona, Maricopa Co. Distr. — U.S.A. (Arizona, California), Mexico (Baja California).

DISTICHA (Becker), 1919:184, pl. 14, fig. 16 (*Limosina*). Type-locality: Ecuador, Cillacocha. (Subgenus doubtful).

FERRUGINATA (Stenhammar), 1854:397 (1855:139) (*Limosina*). Type-locality: "Sweden". Distr. — Pacific Is., India, W. and E. Africa, Atlantic Is., Egypt, Europe, N. America; Bermudas, W.I. (St. Vincent), Puerto Rico, Surinam, Argentina. Ref. — Richards, 1960:205.

*illotus* Williston, 1896:434, fig. 162 (*Borborus*). Type-locality: W.I., St. Vincent.

HIRTULA (Rondani), 1880:40 (1880a:38) (*Limosina*). Type-locality: "Italy". Distr. — Europe, Africa, Pacific Is., New Zealand, N. America; Bermudas, Bolivia, Chile, Argentina. Refs. — Richards, 1960:206, 1963:245.

*exigua* Adams, 1904:454 (*Limosina*; preocc. Rondani, 1880). Type-locality: U.S.A., New Mexico.

*exiguella* Spuler, 1925b:123, fig. 14 (nom. nov. for *exigua* Adams).

HIRTULOIDEA Duda, 1925:206. Type-locality: Peru, Cuzco; Bolivia, La Paz, Mapi, Lorenzopata. Distr. — Peru, Bolivia. Ref. — Richards, 1960:206.

MITCHELLI (Malloch), 1913a:135 (*Limosina*). Type-locality: U.S.A., Texas, Victoria. Distr. — U.S.A. (Texas, Arizona), Costa Rica (Cartago, Juan Viñas, Tierra Blanca). Refs. — Malloch, 1914a:11; Spuler, 1925b:124, fig. 13; Richards, 1960:202.

SETULOSA Duda, 1929:38. Type-locality: Bolivia, Santa Cruz, San José de Chiquitos. Distr. — Bolivia. Ref. — Richards, 1960:206.

VAGANS (Haliday), 1833:178 (*Borborus*). Type-locality: "Ireland". Distr. — Europe, Asia, Pacific Is., Africa; Canada, U.S.A., Bolivia, Chile, Argentina. Refs. — Duda, 1925:205; Richards, 1931:82, 1960:205, 1963:245.

*albipennis* Rondani, 1880:41 (1880a:39) (*Limosina*). Type-locality: "Italy".

## LITERATURE CITED

ADAMS, C. F.

1903. In F. H. Snow: A preliminary list of the Diptera of Kansas. *Kansas Univ. Sci. Bull.* 2:211-223.

BECKER, T.

1919. Diptères brachycères. *Mission Arc Méridien Équatorial en Amérique du Sud, 1899-1906*, 10(2):162-215, 4 pls.

BEZZI, M.

1927. A new genus and species of Borborid flies from South America. *Proc. U. S. Nat. Mus.* 68(1926), Art. 20:1-6, figs. 1-2.

BIGOT, J. M. F.

1888. Diptères. *Mission Sci. au Cap Horn 1882-3*, *Zool.* 6:1-45, 4 pls.

BORGMEIER, T.

1931. Um Cypselideo ecitophilo de Goyaz (Dipt. Cypselidae). *Rev. Entom.*, Rio de Janeiro 1:30-37, 1 pl., 1 fig.

BRÈTHES, J.

1920. Cueillette d'insectes au Rio Blanco. III. Diptères. *Rev. Chil. Hist. Nat.* 23:40-44, 3 figs.

COQUILLETT, D. W.

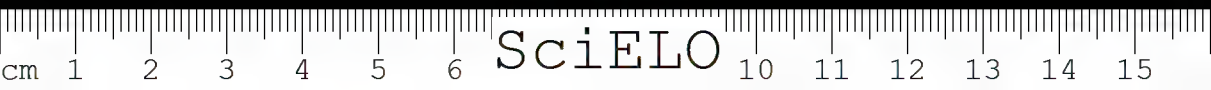
1900. Report on a collection of Dipterous insects from Puerto Rico. *Proc. U. S. Nat. Mus.* 22:249-270.

CURRAN, C. H.

1928. Insects of Porto Rico and the Virgin Islands. Diptera or two-winged flies. *Sci. Survey of Porto Rico and Virgin Islands* 11(1): 118 pp., 39 figs. New York, Academy of Sciences.
1934. The Templeton-Crocker expedition of the California Academy of Sciences, 1932. *Proc. Calif. Acad. Sci.* (4)21:147-172, 4 figs.

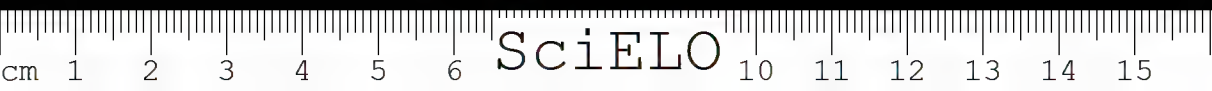
DUDA, O.

1918. Revision der europäischen Arten der Gattung *Limosina* Macquart (Dipteren). *Abh. zool.-bot. Ges. Wien* 10:1-240, 8 pls.
1920. Vorläufige Mitteilung zur Kenntniss der aussereuropäischen Arten der Gattungen *Leptocera* Olivier = *Limosina* Macq. und *Borborus* Meigen (Dipteren). *Zool. Jahrb., Syst.* 43:433-446, 3 figs.
1921. *Fiebrigella* und *Archiborborus*, zwei neue südamerikanische Borboridengattungen (Dipteren). *Tijd. Ent.* 64:119-146, 1 fig.
1923. Revision der altweltischen Arten der Gattung *Borborus* (*Cypsela*) Meigen (Dipteren). *Arch. f. Naturg.* 89A(4):35-112, 14 figs.
1924. *Aptilotella borgmeieri* ♂, eine neue flügellose Borboride (Dipt.) aus Brasilien. *Natuurh. Maandbl.* 13:74-76, 1 fig.
- 1924a. Berichtigung zur Revision der europäischen Arten der Gattung *Limosina* Macq. (Dipteren) nebst Beschreibung von sechs neuen Arten. *Verh. zool.-bot. Ges. Wien* (1923)73:163-180, 7 figs.





- 1925 (Sept.). Die aussereuropäischen Arten der Gattung *Leptocera* Olivier = *Limosina* Macquart (Dipteren) mit Berücksichtigung der europäischen Arten. *Arch. f. Naturg.* 90A(11)(1924):5-215, 4 pls.
1929. Die Ausbeute der deutschen Chaco-Expedition 1925/26. (Dipteren). VI. Sepsidae. VII. Piophilidae. VIII. Cypselidae. IX. Drosophilidae und X. Chloropidae. *Konowia* 8:33-50, 6 figs; 165-169, 1 fig.
1932. In K. Holdhaus: Ueber die Insektenfauna der Insel Süd-Georgien. *Zool. Jahrb., Syst.* 63:163-182.
1938. In E. Lindner: *Die Fliegen der Paläarktischen Region* 57:182 pp., 3 pls.
- ENDERLEIN, G.
- 1909a. *Antrops truncipennis* eine neue Borboridengattung von Feuerland. *Zool. Anz.* 34:225-230, 1 fig.
1938. In C. Skottsberg: *The Natural History of Juan Fernandez and Easter Island* 60 (Die Dipterenfauna der Juan Fernandez Inseln und Oster-Inseln): 643-680, 49 figs. Uppsala.
- FALLÉN, C. F.
1810. *Specimen entomologicum novam Dipterorum disponendi methodum exhibens*: 26 pp., 1 pl. Lund.
1820. *Heteromyzides Sveciae*: 10 pp. Lund.
1826. *Supplementum Dipterorum Sveciae* 2:16 pp. Lund.
- FREY, R.
1954. Diptera Brachycera und Sciaridae von Tristan da Cunha. *Results Norwegian Exped. to Tristan da Cunha* 26:1-55, 26 figs.
- GAY, C.
1852. *Historia fisica y politica de Chile*, Zool. 7: Paris.
- GERCKE, G.
1889. Vorläufige Nachricht über die Fliegen Süd-Georgiens, nach der Ausbeute der deutschen Station 1882-3. *Jahr. Hamburg Wiss. Anst.* 6:153-154, 1 fig.
- GODDARD, W. H.
1938. The description of the puparia of fourteen British species of Sphaeroceridae (Borboridae, Diptera). *Trans. Soc. Brit. Ent.* 5: 235-258, 13 figs.
- HAFÉZ, M.
1949. Observations on the biology of some coprophagous Borboridae (Diptera). *Proc. R. ent. Soc. London (A)* 24:1-5, 1 fig.



HALIDAY, A. H.

1833. Catalogue of the Diptera occurring about Holywood in Downshire. *Entom. Mag.* 1:147-180.

1836. British species of the Dipterous tribe Sphaeroceridae. *Entom. Mag.* 3:315-336.

HARRISON, R. A.

1959. Acalyprate Diptera of New Zealand. *N. Z. Dept. Sci. Industr. Res. Bull.* 128:viii + 382, 438 figs.

HENNIG, W.

1952. *Die Larvenformen der Dipteren* 3:vii + 628 pp., 31 pls., 338 figs. (pp. 320-324). Berlin.

HUSSEY, N. W.

1957. Observations on the Sphaeroceridae (Borboridae, Diptera) associated with stable manure. *Ann. Mag. Nat. Hist.* (12)10: 762-766.

HUTTON, F. W.

1901. Synopsis of the Diptera Brachycera of New Zealand. *Trans. and Proc. New Zealand Inst.* (1900)33:1-95.

JOHNSON, C. W.

1913. The dipteran fauna of Bermuda. *Ann. Ent. Soc. Amer.* 6:443-452, 2 figs.

1915. Two new species of Borboridae. *Psyche* 22:21-22.

KNAB, F. & J. R. MALLOCH

1912. A Borborid from an epiphytic Bromeliad (Diptera; fam. Borboridae). *Ent. News* 23:413-214, 1 fig.

LATREILLE, P. A.

1804. Tableau méthodique des Insectes, pp. 129-200, in *Société de Naturalistes et d'Agriculteurs: Nouveau dictionnaire d'histoire naturelle, appliqué aux arts, principalement à l'agriculture et à l'économie rurale et domestique* 24(3): Tableaux méthodiques d'histoire naturelle, 238 pp., 5 pls. Paris.

1805. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes* 14:432 pp., pls. 104-112. Paris, "An XIII".

LIOY, P.

1863-1864. I Ditteri distribuiti secondo un nuovo metodo di classificazione naturale. *Atti dell'Ist. Veneto* (3)9(1863):187-236; (3)9(1864):499-518, 569-604, 719-771, 879-910, 989-1027, 1087-1126, 1311-1352; (3)10(1864):59-84.

MACQUART, J.

1835. *Suites à Buffon. Histoire naturelle des Insectes. Diptères 2.* Paris.  
1843. Diptères exotiques nouveaux ou peu connus 2(3). *Mém. Soc. Roy. Sci., Agric. & Arts Lille* (1843):162-460, 36 pls. (repaginated pp. 1-304).

MALLOCH, J. R.

1912. New Diptera from Panama. *Smiths. Misc. Coll.* 59:1-8.  
1913a. Two new species of Borboridae from Texas. *Proc. Ent. Soc. Washington* 15:135-137, 1 fig.  
1913b. Descriptions of new species of American flies of the family Borboridae. *Proc. U. S. Nat. Mus.* 44:361-372.  
1914a. Costa Rican Diptera collected by Philip P. Calvert, Ph. D., 1909-10. *Trans. Amer. Ent. Soc.* 40:1-36, 1 pl.  
1914b. A new Borborid (Diptera) from Panama. *Ent. News* 25:31.  
1925. A synopsis of New World flies of the genus *Sphaerocera* (Diptera: Borboridae). *Proc. Ent. Soc. Washington* 27:117-123.

MEIGEN, J. W.

1830. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten* 6. Hamm.  
1838. Idem, 7. Hamm.

OLIVIER, G. A.

1813. Premier mémoire sur quelques Insectes qui attaquent les céréales. *Mém. Soc. Agric. Dept. Seine-et-Oise* 16:477-295. Reprinted by Guitel, F., 1911: *Insecta* 1:174-182, 195-199, 12 figs.

OSTEN-SACKEN, C. R.

1878. Catalogue of the described Diptera of North America, 2nd. Ed. *Smiths. Misc. Coll.* 270:xlvi + 276 pp.

RAFINESQUE, C. S.

1814. Specchio delle Scienze. *Giornale Enciclopedico di Sicilia* 2(11). Palermo.

REMMERT, H.

1955. Substratsbeschaffenheit und Salzgehalt als ökologische Faktoren für Dipteren. *Zool. Jahrb., Syst.* 83:453-474, 14 figs.

RICHARDS, O. W.

1930. The British species of Sphaeroceridae (Borboridae, Diptera). *Proc. Zool. Soc. London* (2) (1930):261-345, 1 pl., 23 figs.  
1931. Sphaeroceridae (Borboridae), in *Diptera of Patagonia and South Chile* 6(3):62-84, 1 pl., 2 figs.

1941. Sphaeroceridae (Diptera). *British Grahamland Expedition 1934-37, Scientific Reports* 1(7):323-326, 1 fig.
1951. Brachypterous Sphaeroceridae. *British Museum (Natural History) Ruwenzori Expedition 1934-5* 2(8):829-851, 10 figs.
1952. Sphaeroceridae from Hawaii (Diptera). *Proc. Hawaii. Ent. Soc.* 14:429-431.
1955. Los insectos de las islas Juan Fernandez. 21. Sphaeroceridae (Diptera). *Rev. Chil. Ent.* 4:73-93, 10 figs.
1960. On two N. American species of *Leptocera* Oliv., subgenus *Coproica* Rdi., with a review of the subgenus (Dipt., Sphaeroceridae). *Ann. Mag. Nat. Hist.* (13)2(1959):199-208, 2 pls.
- 1961a. Notes on the names of some Diptera Sphaeroceridae. *Ann. Mag. Nat. Hist.* (13)3(1960):561-564.
- 1961b. Diptera (Sphaeroceridae) from South Chile. *Proc. R. Ent. Soc. London* (B)30:57-68, 13 figs.
1963. Sphaerocerid flies from South and Central America in the collection of the California Academy of Sciences (Diptera). *Pan-Pacific Ent.* 39:231-246, 13 figs.
- 1964a. Three new species of *Frutillaria* Rich. (Diptera, Sphaeroceridae) from Chile. *Proc. R. Ent. Soc. London* (B)33:44-46, 6 figs.
- 1964b. New species of Diptera Sphaeroceridae from the Pacific region, with notes on some other species. *Ann. Mag. Nat. Hist.* (13)6(1963):609-619, 3 pls.
- 1965a. A contribution to the study of the genus *Sphaerocera* Latreille in Central and South America (Diptera: Sphaeroceridae). *Proc. U.S. Nat. Mus.* 116:223-242, 17 figs.
- 1965b. Three preoccupied names in Diptera, Sphaeroceridae. *Ent. Mon. Mag.* 101(1965):121.
1966. The identity of *Anomioptera picta* Schiner, 1868 (Diptera, Sphaeroceridae). *Ann. Mag. Nat. Hist.* (13)8:449-450.

RONDANI, C.

1861. *Dipterologiae Italicae Prodromus* 4. Parma.
1880. Species Italiae ordinis Dipteriorum (Muscaria Rond.), collectae et observatae. Stirps XXV. Copromyzinae Zett. *Boll. Soc. Ent. Ital.* 12:3-45.

SABROSKY, C. W.

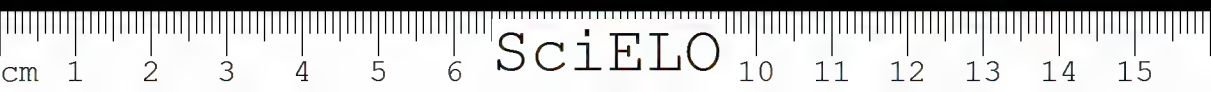
1949. "*Leptocera lutosa*": A complex of Nearctic species. (Diptera, Sphaeroceratidae). *Proc. Ent. Soc. Washington* 51:1-21, 3 pls.

SCHAEFFER, C.

1914. Collembola, Siphonaptera, Diptera and Coleoptera of the South Georgia Expedition. *Sci. Bull. Mus. Brooklyn Inst.* 2(1913-1914): 90-94.

SCHINER, J. R.

1868. *Reise der österreichischen Fregatte Novara um die Erde*. Zool. Theil, Diptera: Wien.





SCHMIDT, O.

1879. *Spongen der Meerbusens von Mexico 1*. Jena.

SÉGUY, E.

1940. Croisière du Bougainville aus îles australes françaises. IV. Diptères. *Mém. Mus. Hist. Nat. Paris* (n.s.) 14:203-267, 139 figs.  
1954. Insectes Mallophages, Anoplures et Diptères recueillis par M. P. Paulian aux îles Kerguelen. *Mém. Inst. Sci. Madagascar* (E) 4(1953):553-615, 64 figs.

SPULER, A.

1923. North American genera and subgenera of the dipterous family Borboridae. *Proc. Acad. Nat. Sci. Philadelphia* 75:369-378 (separate 1923, volume 1924).  
1924a. Species of the subgenus *Collinella* and *Leptocera* of North America. *Ann. Ent. Soc. Amer.* 17:106-116, 1 pl.  
1924b. North American species of the subgenera *Opacifrons* Duda and *Pteremis* Rondani of the genus *Leptocera* Olivier (Diptera, Borboridae). *Psyche*, 31:121-134, 1 pl.  
1924c. North American species of the genus *Sphaerocera* and *Aptilotus* (Diptera — Borboridae). *Pan-Pacific Ent.* 1:66-71, 4 figs.  
1925a (June). North American species of the subgenus *Scotophilella* Duda (Diptera, Borboridae). *J. New York Ent. Soc.* 33:70-84, 147-162, 1 pl.  
1925b. Studies in North American Borboridae (Diptera). *Canad. Ent.* 57:99-104 (April), 116-124 (May), 1 pl.

STENHAMMAR, C.

1854. Skandinaviens Copromyzinae granskade och beskrifne. *K. Vet. Akad. Handl.* (1853):257-442.  
1855. *Copromyzinae Scandinaviae*, 184 pp. Holmiae.

STRAND, E.

1926. Miscellanea nomenclatoria zoologia et palaeontologica, I-II. *Arch. f. Naturg.* 92A (8):30-75.

THOMSON, C. G.

1869. *Kongliga Svenska Fregatten Eugenes Resa omkring Jorden. Vet. Jagttagl. 2: Zoologi, 1 Insekta, Häft 12. Diptera.* Stockholm (1868).

VANSCHUYTBROECK, P.

1945. Contribution à l'étude du genre *Ceroptera* Macquart (Diptera, Sphaeroceridae). *Bull. Mus. Roy. Hist. Nat. Belgique* 21(21):1-12, 5 figs.

VILLENEUVE, J.

1917. Espèces nouvelles de Diptères de la famille des Cypselidae (Borboridae). *Bull. Soc. Ent. France* 1917:333-338.

WALKER, F.

1849. *List of the specimens of Dipterous insects in the collection of the British Museum* 4:689-1172. London.

WESTWOOD, J. O.

1840. *An introduction to the modern classification of insects* 2. Synopsis. London.

WIEDEMANN, C. R. W.

1824. *Analecta entomologica*, 60 pp., 1 pl. Kiliae.

ZETTERSTEDT, J. W.

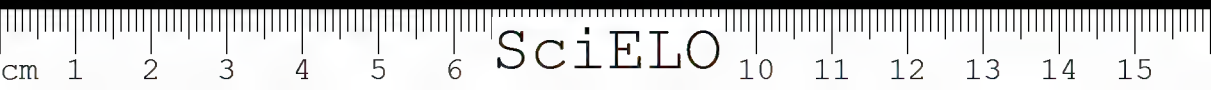
1847. *Diptera Scandinaviae, disposita et descripta* 6:2163-2580. Lundae.

WILLISTON, S. W.

1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London* 1896:253-446, pls. 8-14.

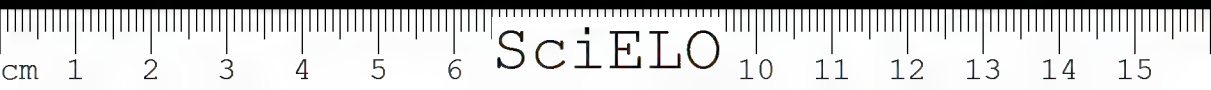
# INDEX

|  |       |
|--|-------|
| abdominiseta (Duda), 1925 (Paracollinella), Leptocera .....      | 72.8  |
| <i>Acuminiseta</i> Duda, 1920 (nomen nudum) .....                | 72.11 |
| <i>Acuminiseta</i> Duda, 1925 .....                              | 72.11 |
| aequilimbata Duda, 1925, Leptocera .....                         | 72.8  |
| aequipilosa (Duda), 1925 (Collinella), Leptocera .....           | 72.9  |
| albicans Richards, 1931, Archiborborus .....                     | 72.2  |
| <i>albipennis</i> (Rondani), 1880 (Limosina), Leptocera .....    | 72.16 |
| alexandri Richards, 1965, Phthitia .....                         | 72.7  |
| <i>Alma</i> Duda, 1938 .....                                     | 72.11 |
| <i>Americaptilotus</i> Richards, 1951 .....                      | 72.13 |
| amphora Richards, 1965, Sphaerocera .....                        | 72.5  |
| ? <i>analis</i> Duda, 1929, Leptocera .....                      | 72.15 |
| ancudensis Richards, 1931, Leptocera .....                       | 72.11 |
| angulata (Thomson), 1869 (Limosina), Leptocera .....             | 72.12 |
| annulatus Richards, 1963, Archiborborus .....                    | 72.3  |
| Anomioptera Schiner, 1868 .....                                  | 72.6  |
| Antrops Enderlein, 1909 .....                                    | 72.4  |
| Aptilotella Duda, 1924 .....                                     | 72.7  |
| <i>Aptilotus</i> , authors .....                                 | 72.13 |
| Archiborborus Duda, 1921 .....                                   | 72.2  |
| Archicollinella Duda, 1925 .....                                 | 72.10 |
| Archileptocera Duda, 1920 .....                                  | 72.6  |
| arnaudi Richards, 1963, Leptocera .....                          | 72.11 |
| atra (Adams), 1903 (Limosina), Leptocera .....                   | 72.9  |
| australis (Br  thes), 1920 (Limosina), Leptocera .....           | 72.9  |
| himaculata Williston, 1896, Sphaerocera .....                    | 72.5  |
| <i>binodatipes</i> (Enderlein), 1938 (Gyretria), Leptocera ..... | 72.11 |
| bipilosa Duda, 1925, Leptocera .....                             | 72.9  |



|  |       |
|--|-------|
| <i>bisecta</i> Malloch, 1914, <i>Leptocera</i> .....                                   | 72.13 |
| <i>biseta</i> Duda, 1925, <i>Leptocera</i> .....                                       | 72.11 |
| <i>boliviensis</i> Duda, 1929, <i>Archileptocera</i> .....                             | 72.6  |
| <i>boliviensis</i> Duda, 1925, <i>Leptocera</i> .....                                  | 72.13 |
| <i>borgmeieri</i> Duda, 1924, <i>Aptilotella</i> .....                                 | 72.7  |
| <i>brachystoma</i> (Stenhammar), 1854 ( <i>Limosina</i> ), <i>Leptocera</i> .....      | 72.11 |
| <i>brevifrons</i> (Duda), 1925 ( <i>Leptocera</i> ), <i>Ceroptera</i> .....            | 72.7  |
| <i>breviseta</i> Malloch, 1914, <i>Leptocera</i> .....                                 | 72.9  |
| <i>brevista</i> Spuler, 1924, <i>Leptocera</i> ( <i>lapsus</i> ) .....                 | 72.9  |
| <i>Borborillus</i> Duda, 1923 .....  | 72.2  |
| <i>Borborus</i> , authors .....  | 72.2  |
| <i>bromeliarum</i> (Knab & Malloch), 1912 ( <i>Limosina</i> ), <i>Leptocera</i> .....  | 72.13 |
| <i>Bromeloecia</i> Spuler, 1924 .....  | 72.13 |
| <i>cacti</i> Richards, 1960, <i>Leptocera</i> .....                                    | 72.16 |
| <i>cadaverina</i> (Duda), 1918 ( <i>Limosina</i> ), <i>Leptocera</i> .....             | 72.14 |
| <i>caenosa</i> (Rondani), 1880 ( <i>Limosina</i> ), <i>Leptocera</i> .....             | 72.8  |
| <i>caerulea</i> Duda, 1925, <i>Leptocera</i> .....                                     | 72.10 |
| <i>calceata</i> Richards, 1961, <i>Frutillaria</i> .....                               | 72.4  |
| <i>calceatus</i> Duda, 1921, <i>Archiborborus</i> .....                                | 72.3  |
| <i>cartagensis</i> Malloch, 1914, <i>Leptocera</i> .....                               | 72.10 |
| <i>?caudata</i> Duda, 1929, <i>Leptocera</i> .....                                     | 72.15 |
| <i>Ceroptera</i> Macquart, 1835 .....  | 72.7  |
| <i>Chaetopodella</i> Duda, 1920 .....  | 72.11 |
| <i>chaetosus</i> Richards, 1961, <i>Archiborborus</i> .....                            | 72.3  |
| <i>chepuensis</i> Richards, 1961, <i>Frutillaria</i> .....                             | 72.4  |
| <i>chilenica</i> Duda, 1925, <i>Leptocera</i> .....                                    | 72.14 |
| <i>chilensis</i> Richards, 1931, <i>Archiborborus</i> .....                            | 72.3  |
| <i>chimboraço</i> Richards, 1965, <i>Sphaerocera</i> .....                             | 72.5  |
| <i>Collinella</i> Duda, 1918 .....   | 72.9  |
| <i>Collinellula</i> Strand, 1928 .....   | 72.9  |
| <i>consanguinea</i> (Blanchard), 1852 ( <i>Limosina</i> ), <i>Leptocera</i> .....      | 72.14 |
| <i>Coproica</i> Rondani, 1861 .....  | 72.16 |
| <i>Copromyza</i> Fallén, 1810 .....  | 72.2  |
| <i>Coprophila</i> Duda, 1918 .....   | 72.16 |
| <i>costalis</i> (Becker), 1919 ( <i>Limosina</i> ), <i>Leptocera</i> .....             | 72.12 |
| <i>crassicosta</i> (Enderlein), 1938 ( <i>Gyrettria</i> ), <i>Leptocera</i> .....      | 72.14 |
| <i>cultelipennis</i> (Enderlein), 1938 ( <i>Skottsbergia</i> ), <i>Leptocera</i> ..... | 72.8  |
| <i>curvinervis</i> (Stenhammar), 1854 ( <i>Limosina</i> ), <i>Leptocera</i> .....      | 72.8  |
| <i>curvitaris</i> Duda, 1925, <i>Leptocera</i> .....                                   | 72.13 |
| <i>darwini</i> Richards, 1931, <i>Leptocera</i> .....                                  | 72.14 |
| <i>decimsetosa</i> Richards, 1931, <i>Leptocera</i> .....                              | 72.9  |
| <i>decipiens</i> Duda, 1920, <i>Archileptocera</i> .....                               | 72.6  |
| <i>discalis</i> (Malloch), 1912 ( <i>Limosina</i> ), <i>Leptocera</i> .....            | 72.8  |
| <i>dissecta</i> Richards, 1965, <i>Sphaerocera</i> .....                               | 72.5  |
| <i>disticha</i> (Becker), 1919 ( <i>Limosina</i> ), <i>Leptocera</i> .....             | 72.16 |
| <i>divergens</i> (Duda), 1929 ( <i>Collinella</i> ), <i>Leptocera</i> .....            | 72.9  |
| <i>divergeus</i> Duda, 1929, <i>Leptocera</i> ( <i>lapsus</i> ) .....                  | 72.9  |
| <i>dolichoptera</i> Richards, 1963, <i>Leptocera</i> .....                             | 72.14 |
| <i>dolorosa</i> (Williston), 1896 ( <i>Limosina</i> ), <i>Leptocera</i> .....          | 72.8  |
| <i>duplicata</i> Richards, 1955, <i>Leptocera</i> .....                                | 72.8  |
| <i>ecitonis</i> Borgmeier, 1931, <i>Homalomitra</i> .....                              | 72.6  |

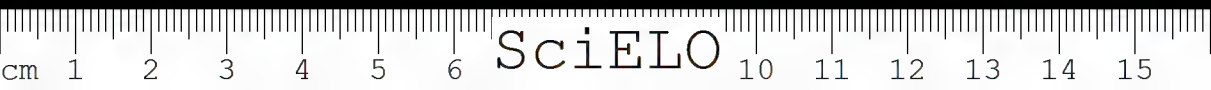
|  |             |
|--|-------------|
| <i>ecuadoria</i> Richards, 1965, <i>Sphaerocera</i> .....                          | 72.5        |
| <i>edenensis</i> Richards, 1961, <i>Frutillaria</i> .....                          | 72.4        |
| <i>edwardsi</i> Richards, 1931, <i>Archiborborus</i> .....                         | 72.3        |
| <i>elegans</i> Spuler, 1925, <i>Leptocera</i> .....                                | 72.14       |
| <i>ellipsipennis</i> Richards, 1955, <i>Leptocera</i> .....                        | 72.8        |
| <i>empirica</i> (Hutton), 1901 ( <i>Limosina</i> ), <i>Leptocera</i> .....         | 72.14       |
| <i>ensenada</i> Richards, 1931, <i>Leptocera</i> .....                             | 72.9        |
| <i>erythrocer</i> a (Becker), 1919 ( <i>Limosina</i> ), <i>Leptocera</i> .....     | 72.8        |
| <i>eudypitidis</i> Richards, 1941, <i>Penola</i> .....                             | 72.4        |
| <i>exigua</i> (Adams), 1904 ( <i>Limosina</i> ), <i>Leptocera</i> .....            | 72.16       |
| <i>exiguella</i> Spuler, 1925, <i>Leptocera</i> .....                              | 72.16       |
| <i>femoralis</i> (Blanchard), 1852 ( <i>Borborus</i> ), <i>Archiborborus</i> ..... | 72.3        |
| <i>ferruginata</i> (Stenhammar), 1854 ( <i>Limosina</i> ), <i>Leptocera</i> .....  | 72.16       |
| <i>Fiebrigella</i> Duda, 1921 .....  | 72.2        |
| <i>flaviceps</i> Malloch, 1925, <i>Sphaerocera</i> .....                           | 72.4        |
| <i>flavicoxa</i> Malloch, 1925, <i>Sphaerocera</i> .....                           | 72.5        |
| <i>flavipes</i> (Meigen), 1830 ( <i>Borborus</i> ), <i>Leptocera</i> .....         | 72.14       |
| <i>fontinalis</i> (Fallén), 1826 ( <i>Copromyza</i> ), <i>Leptocera</i> .....      | 72.8        |
| <i>Frutillaria</i> Richards, 1961 .....  | 72.4        |
| <i>fulva</i> (Malloch), 1912 ( <i>Limosina</i> ), <i>Leptocera</i> .....           | 72.8        |
| <i>fusca</i> Duda, 1925, <i>Leptocera</i> .....                                    | 72.14       |
| <i>fuscinervis</i> of Malloch, 1912, <i>Leptocera</i> .....                        | 72.10       |
| <i>fuscinervis</i> (Malloch), 1912 ( <i>Limosina</i> ), <i>Leptocera</i> .....     | 72.8        |
| <i>fusinervis</i> Spuler, 1924, <i>Leptocera</i> (lapsus) .....                    | 72.8, 72.10 |
| <i>galapagensis</i> Curran, 1934, <i>Sphaerocera</i> .....                         | 72.6        |
| <i>geminiseta</i> Duda, 1920, <i>Archileptocera</i> .....                          | 72.7        |
| <i>gibba</i> Spuler, 1925, <i>Leptocera</i> .....                                  | 72.14       |
| <i>griseithorax</i> Richards, 1931, <i>Leptocera</i> .....                         | 72.11       |
| <i>guttula</i> Richards, 1965, <i>Sphaerocera</i> .....                            | 72.5        |
| <i>Gyretria</i> Enderlein, 1938 .....  | 72.11       |
| <i>Hellerella</i> Duda, 1920 .....   | 72.6        |
| <i>Heteroptera</i> Macquart, 1835 .....  | 72.16       |
| <i>hirtipes</i> (Macquart), 1843 ( <i>Borborus</i> ), <i>Archiborborus</i> .....   | 72.2        |
| <i>hirtula</i> (Rondani), 1880 ( <i>Limosina</i> ), <i>Leptocera</i> .....         | 72.16       |
| <i>hirtuloidea</i> (Duda), 1925 ( <i>Coprophila</i> ), <i>Leptocera</i> .....      | 72.16       |
| <i>hirtus</i> (Bigot), 1888 ( <i>Ceroptera</i> ), <i>Archiborborus</i> .....       | 72.3        |
| <i>Homalomitra</i> Borgmeier, 1931 .....   | 72.6        |
| <i>Huapia</i> Richards, 1931 .....   | 72.3        |
| <i>hyalinervis</i> Duda, 1925, <i>Leptocera</i> .....                              | 72.15       |
| <i>illotus</i> (Williston), 1896 ( <i>Borborus</i> ), <i>Leptocera</i> .....       | 72.16       |
| <i>impudica</i> Duda, 1925, <i>Leptocera</i> .....                                 | 72.10       |
| <i>inaequalis</i> Malloch, 1914, <i>Leptocera</i> .....                            | 72.14       |
| <i>inconspicua</i> Malloch, 1914, <i>Leptocera</i> .....                           | 72.12       |
| <i>johnsoni</i> Spuler, 1925, <i>Leptocera</i> .....                               | 72.11       |
| <i>koenigi</i> Duda, 1932, <i>Archiborborus</i> .....                              | 72.3        |
| <i>kuscheli</i> Richards, 1961, <i>Frutillaria</i> .....                           | 72.4        |





|  |       |
|--|-------|
| <i>lacteipennis</i> (Malloch), 1913 (Borborus), Copromyza .....    | 72.2  |
| <i>Lamprosomella</i> Duda, 1920 .....                              | 72.6  |
| <i>latifrons</i> Duda, 1921, Archiborborus .....                   | 72.3  |
| <i>lepida</i> Richards, 1965, Sphaerocera .....                    | 72.5  |
| <i>Leptocera</i> Olivier, 1813 .....                               | 72.8  |
| <i>levicastilli</i> Richards, 1965, Sphaerocera .....              | 72.5  |
| <i>limbinervis</i> Duda, 1925, Leptocera .....                     | 72.9  |
| <i>Limosina</i> Macquart, 1835 .....                               | 72.13 |
| <i>longipennis</i> Duda, 1925, Leptocera .....                     | 72.14 |
| <i>lugubrina</i> (Malloch), 1913 (Limosina), Leptocera .....       | 72.13 |
| <i>lugubris</i> (Williston), 1896 (Limosina), Leptocera .....      | 72.13 |
| <i>luteonigripes</i> Duda, 1920, Archileptocera .....              | 72.6  |
| <i>luxor</i> Spuler, 1925, Leptocera .....                         | 72.12 |
| <i>maculinea</i> Richards, 1965, Sphaerocera .....                 | 72.9  |
| <i>maculipennis</i> Duda, 1921, Archiborborus .....                | 72.3  |
| <i>maculipennis</i> (Duda), 1925 (Collinella), Leptocera .....     | 72.9  |
| <i>madaris</i> Spuler, 1925, Leptocera .....                       | 72.12 |
| <i>Mallochella</i> Duda, 1925 .....                                | 72.12 |
| <i>manni</i> Bezzi, 1927, Pycnopota .....                          | 72.4  |
| <i>marginalis</i> Malloch, 1914, Leptocera .....                   | 72.10 |
| <i>maximus</i> Richards, 1961, Archiborborus .....                 | 72.2  |
| <i>mediospinosa</i> Duda, 1925, Leptocera .....                    | 72.14 |
| <i>melanogaster</i> (Thomson), 1869 (Limosina), Leptocera .....    | 72.11 |
| <i>mendozaana</i> Richards, 1931, Leptocera .....                  | 72.8  |
| <i>meridionalis</i> Malloch, 1914, Leptocera .....                 | 72.12 |
| <i>microphthalma</i> Richards, 1931, Archiborborus .....           | 72.3  |
| <i>minima</i> (Malloch), 1914 (Limosina), Leptocera .....          | 72.14 |
| <i>minimella</i> Richards, 1965, Leptocera .....                   | 72.14 |
| <i>minutissima</i> (Zetterstedt), 1847 (Limosina), Leptocera ..... | 72.14 |
| <i>mittelli</i> (Malloch), 1913 (Limosina), Leptocera .....        | 72.16 |
| <i>m-nigrum</i> (Malloch), 1912 (Limosina), Leptocera .....        | 72.10 |
| <i>mollis</i> Richards, 1963, Leptocera .....                      | 72.15 |
| <i>monticola</i> Malloch, 1914, Leptocera .....                    | 72.12 |
| <i>multisetosa</i> (Duda), 1925 (Collinella), Leptocera .....      | 72.10 |
| <i>musiphila</i> Richards, 1965, Sphaerocera .....                 | 72.5  |
| <i>neocurvinervis</i> Richards, 1931, Leptocera .....              | 72.9  |
| <i>nigrina</i> Duda, 1920, Archileptocera .....                    | 72.7  |
| <i>nitidicollis</i> (Becker), 1919 (Olinia), Archiborborus .....   | 72.3  |
| <i>nivalis</i> (Bigot), 1888 (Pteremis), Antrops .....             | 72.4  |
| <i>niveipennis</i> (Malloch), 1913 (Limosina), Leptocera .....     | 72.15 |
| <i>Opacifrons</i> Duda, 1918 .....                                 | 72.10 |
| <i>orbicularis</i> (Becker), 1919 (Limosina), Leptocera .....      | 72.15 |
| <i>orbitalis</i> Duda, 1921, Archiborborus .....                   | 72.3  |
| <i>orthoneura</i> Spuler, 1925, Leptocera .....                    | 72.12 |
| <i>ovipennis</i> (Duda), 1925 (Mallochella), Leptocera .....       | 72.12 |
| <i>Palaeoceroptera</i> Duda, 1929 .....                            | 72.6  |
| <i>Palaeocoprina</i> Duda, 1920 .....                              | 72.7  |
| <i>Palaeolimosina</i> Duda, 1920 .....                             | 72.7  |
| <i>pallicornis</i> Malloch, 1914, Leptocera .....                  | 72.15 |

|  |       |
|--|-------|
| <i>pallipes</i> Malloch, 1914, <i>Sphaerocera</i> .....                                | 72.5  |
| <i>Paracollinella</i> Duda, 1924 .....   | 72.7  |
| <i>paraguayensis</i> (Duda), 1925 ( <i>Collinella</i> ), <i>Leptocera</i> .....        | 72.10 |
| <i>parameridionalis</i> (Duda), 1925 ( <i>Mallochella</i> ), <i>Leptocera</i> .....    | 72.12 |
| <i>paraminima</i> Duda, 1925, <i>Leptocera</i> .....                                   | 72.15 |
| <i>paramoesta</i> Duda, 1925, <i>Leptocera</i> .....                                   | 72.15 |
| <i>Parasphaerocera</i> Spuler, 1924 .....  | 72.5  |
| <i>pectinifera</i> (Villeneuve), 1917 ( <i>Limosina</i> ), <i>Leptocera</i> .....      | 72.14 |
| <i>Penola</i> Richards, 1941 .....   | 72.4  |
| <i>perparva</i> (Williston), 1896 ( <i>Limosina</i> ), <i>Leptocera</i> .....          | 72.12 |
| <i>perparvi</i> Spuler, 1925 ( <i>Limosina</i> ), <i>Leptocera</i> .....               | 72.12 |
| <i>Phthitia</i> Enderlein, 1938 .....  | 72.7  |
| <i>phycophila</i> Richards, 1963, <i>Leptocera</i> .....                               | 72.15 |
| <i>picta</i> Schiner, 1868, <i>Anomioptera</i> .....                                   | 72.6  |
| <i>plumbea</i> Duda, 1925, <i>Leptocera</i> .....                                      | 72.15 |
| <i>plumiseta</i> Duda, 1925, <i>Leptocera</i> .....                                    | 72.15 |
| <i>plumosula</i> (Rondani), 1880 ( <i>Limosina</i> ), <i>Leptocera</i> .....           | 72.15 |
| <i>pluriseta</i> (Duda), 1925 ( <i>Collinella</i> ), <i>Leptocera</i> .....            | 72.10 |
| <i>poeciloptera</i> Malloch, 1914, <i>Leptocera</i> .....                              | 72.13 |
| <i>Poecilosomella</i> Duda, 1920 (nomen nudum) .....                                   | 72.12 |
| <i>Poecilosomella</i> Duda, 1925 .....   | 72.12 |
| <i>Procopromyza</i> Richards, 1931 .....   | 72.2  |
| <i>prominens</i> Duda, 1925, <i>Leptocera</i> .....                                    | 72.12 |
| <i>propinqua</i> Richards, 1964, <i>Frutillaria</i> .....                              | 72.4  |
| <i>propulsa</i> Duda, 1925, <i>Leptocera</i> .....                                     | 72.15 |
| <i>Pterodrepana</i> Enderlein, 1938 .....  | 72.7  |
| <i>Pterogramma</i> Spuler, 1923 .....  | 72.12 |
| <i>pulchripes</i> Duda, 1925, <i>Leptocera</i> .....                                   | 72.11 |
| <i>pumila</i> (Williston), 1896 ( <i>Limosina</i> ), <i>Leptocera</i> .....            | 72.15 |
| <i>Pycnopota</i> Bezzi, 1927 .....   | 72.4  |
| <i>quadrinotus</i> (Bigot), 1888 ( <i>Ceroptera</i> ), <i>Archiborborus</i> .....      | 72.3  |
| <i>quadrisetosa</i> Malloch, 1914, <i>Leptocera</i> .....                              | 72.15 |
| <i>quinquemaculatus</i> (Walker), 1849 ( <i>Borborus</i> ), <i>Archiborborus</i> ..... | 72.2  |
| <i>Rachispoda</i> Lioy, 1864 .....   | 72.9  |
| <i>rectangularis</i> Malloch, 1914, <i>Leptocera</i> .....                             | 72.11 |
| <i>regularis</i> Duda, 1925, <i>Leptocera</i> .....                                    | 72.11 |
| <i>regularis</i> Malloch, 1914, <i>Leptocera</i> .....                                 | 72.15 |
| <i>retracta</i> (Rondani), 1880 ( <i>Limosina</i> ), <i>Leptocera</i> .....            | 72.14 |
| <i>rossi</i> Richards, 1963, <i>Leptocera</i> .....                                    | 72.10 |
| <i>rotundipennis</i> (Malloch), 1913 ( <i>Limosina</i> ), <i>Leptocera</i> .....       | 72.15 |
| <i>ruficornis</i> (Duda), 1925 ( <i>Collinella</i> ), <i>Leptocera</i> .....           | 72.10 |
| <i>schildi</i> Spuler, 1924, <i>Leptocera</i> .....                                    | 72.10 |
| <i>schlingeri</i> Richards, 1963, <i>Leptocera</i> .....                               | 72.9  |
| <i>Scotophilella</i> Duda, 1918 .....  | 72.13 |
| <i>scutellaris</i> (Williston), 1896 ( <i>Limosina</i> ), <i>Leptocera</i> .....       | 72.8  |
| <i>selkirki</i> (Enderlein), 1938 ( <i>Pterodrepana</i> ), <i>Phthitia</i> .....       | 72.7  |
| <i>setosus</i> Duda, 1921, <i>Archiborborus</i> .....                                  | 72.3  |
| <i>setulosa</i> Duda, 1929, <i>Leptocera</i> .....                                     | 72.16 |
| <i>shannoni</i> Richards, 1965, <i>Sphaerocera</i> .....                               | 72.5  |
| <i>simplicicrus</i> (Duda), 1925 ( <i>Mallochella</i> ), <i>Leptocera</i> .....        | 72.13 |

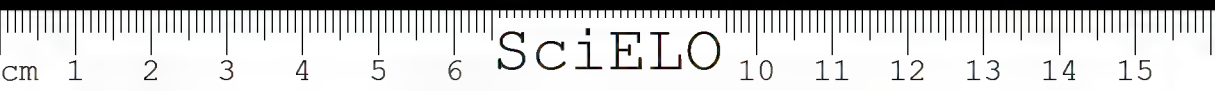


|   |       |
|---|-------|
| <i>simplicimanus</i> Richards, 1931, <i>Archiborborus</i> .....                   | 72.3  |
| <i>Skottsbergia</i> Enderlein, 1938 .....   | 72.7  |
| <i>Sphaerocera</i> Latreille, 1804 .....  | 72.5  |
| <i>Spelobia</i> Spuler, 1924 .....  | 72.13 |
| <i>spuleri</i> Sabrosky, 1949, <i>Leptocera</i> .....                             | 72.10 |
| <i>stenoptera</i> Richards, 1961, <i>Frutillaria</i> .....                        | 72.4  |
| <i>striata</i> (Duda), 1925 ( <i>Coilinella</i> ), <i>Leptocera</i> .....         | 72.10 |
| <i>sublugubrina</i> (Malloch), 1912 ( <i>Limosina</i> ), <i>Leptocera</i> .....   | 72.13 |
| <i>sublugubrina</i> Malloch of Spuler, 1925, <i>Leptocera</i> .....               | 72.13 |
| <i>submaculatus</i> Duda, 1921, <i>Archiborborus</i> .....                        | 72.3  |
| <i>substituta</i> Richards, 1961, <i>Leptocera</i> .....                          | 72.13 |
| <i>substriata</i> (Duda), 1925 ( <i>Mallochella</i> ), <i>Leptocera</i> .....     | 72.13 |
| <i>sylvicola</i> Richards, 1965, <i>Leptocera</i> .....                           | 72.13 |
| <i>tenuiforceps</i> Richards, 1964, <i>Frutillaria</i> .....                      | 72.4  |
| <i>tertia</i> Richards, 1965, <i>Sphaerocera</i> .....                            | 72.5  |
| <i>Thoracochaeta</i> Duda, 1918 .....   | 72.11 |
| <i>tonsa</i> Duda, 1925, <i>Leptocera</i> .....                                   | 72.11 |
| <i>Thoracochaeta</i> Duda, 1918 .....   | 72.11 |
| <i>Trachyops</i> Rondani, 1880 .....  | 72.15 |
| <i>transversa</i> Richards, 1965, <i>Sphaerocera</i> .....                        | 72.5  |
| <i>transversalis</i> Richards, 1965, <i>Sphaerocera</i> .....                     | 72.5  |
| <i>trapezina</i> Richards, 1965, <i>Sphaerocera</i> .....                         | 72.6  |
| <i>triangularis</i> Richards, 1964, <i>Frutillaria</i> .....                      | 72.4  |
| <i>trigonata</i> Spuler, 1924, <i>Leptocera</i> .....                             | 72.10 |
| <i>trochanteratus</i> Spuler, 1924, <i>Leptocera</i> (misident.) .....            | 72.10 |
| <i>truncipennis</i> Enderlein, 1909, <i>Antrops</i> .....                         | 72.4  |
| <i>vagans</i> (Haliday), 1833 ( <i>Borborus</i> ), <i>Leptocera</i> .....         | 72.16 |
| <i>varicosta</i> (Malloch), 1914 ( <i>Limosina</i> ), <i>Leptocera</i> .....      | 72.15 |
| <i>varipes</i> (Bigot), 1888 ( <i>Borborus</i> ), <i>Archiborborus</i> .....      | 72.2  |
| <i>varipes</i> Malloch, 1925, <i>Sphaerocera</i> .....                            | 72.6  |
| <i>venalicia</i> (Osten Sacken), 1878 ( <i>Borborus</i> ), <i>Leptocera</i> ..... | 72.12 |
| <i>venezolana</i> Richards, 1963, <i>Ceroptera</i> .....                          | 72.7  |
| <i>venosa</i> Enderlein, 1938, <i>Phthitia</i> .....                              | 72.7  |
| <i>verrucosa</i> Duda, 1921, <i>Fiebrigella</i> .....                             | 72.2  |
| <i>vittata</i> Malloch, 1914, <i>Leptocera</i> .....                              | 72.13 |
| <i>xiphosternum</i> Richards, 1965, <i>Sphaerocera</i> .....                      | 72.6  |









SciELO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

73

## FAMILY BRAULIDAE

ALAN STONE

*Entomology Research Division, Agric. Res. Serv.  
U.S. Department of Agriculture  
Washington, D.C.*

This is a family consisting of a single genus and perhaps only one species. The immature stages are found in bee hives and the adults attach themselves to the bees. The species may be of considerable economic importance, damaging the hive cells and taking the food of the larval and adult bees. The biology of *Braula coeca* has been studied in detail by Hassanein & Abd El-Salam (1962b).

## Genus BRAULA Nitzsch

BRAULA Nitzsch, 1818:314. Type-species, *coeca* Nitzsch (mon.).

COECA Nitzsch, 1818:315. Type-locality: ? Europe. Distr. — U.S.A., Cuba, Venezuela (D.F.), Colombia (Antioquia), Peru (Lima), Brazil (Bahia, São Paulo), Argentina (Buenos Aires), Chile (O'Higgins); Africa, Tasmania. Ref. — Hassanein & Abd El-Salam, 1962a, figs. 1-22 (anatomy, larva, pupa, adult).

## LITERATURE CITED

HASSANEIN, N. H. & A. L. ABD EL-SALAM

1962a. Studies on the morphology of the bee-louse, *Braula coeca* Nitzsch. *Bull. Soc. Ent. d'Egypte* 46:45-59, 22 figs.

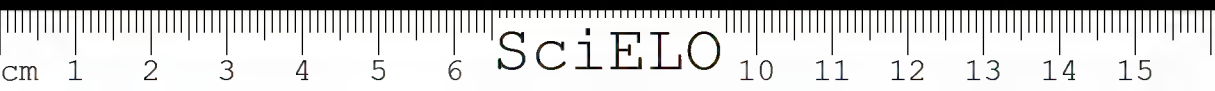
1962b. Biological studies on the bee-louse, *Braula coeca* Nitzsch. *Bull. Soc. Ent. d'Egypte* 46:87-95.

NITZSCH, C. L.

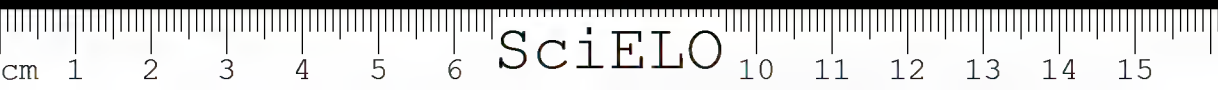
1818. Die Familien und Gattungen der Thierinsenkten (Insecta epizoica) als Prodromus einer Naturgeschichte derselben. *Mag. d. Ent.* (Halle) 3:261-316.



73.1

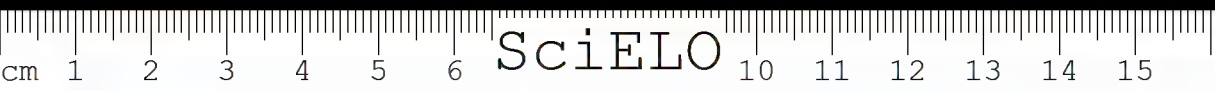


SciELO



SciELO





SciELO

MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(Formerly Departamento de Zoologia, Secretaria da Agricultura,  
São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

74

## FAMILY TETHINIDAE

GEORGE A. FOSTER

*Department of Entomology, University of Maryland, College Park,  
Maryland, U.S.A.*

The Tethinidae is a small family of little pale, pollinose flies of worldwide distribution. Most of the described species are known from the Holarctic Region. Until recently, taxonomic studies of the group have been based largely upon the external adult characters with little regard for the genitalic characters and because of this probably less than one-half of the species have been described.

Most tethinids are found on ocean beaches and can be on the sand in both the wet and dry zones, rotting seaweed or algae, or on the dune grasses. Some *Pelomyia* species are not hallophitic and have been collected in forests, meadows, and deserts (Melander, 1952).

The immature stages of Tethinidae are unknown.

Recent comprehensive works on the family are by Hendel (1934) for the world, Melander (1952) for North America, Collin (1966) for the Palearctic Region, and Malloch (1934) for southern South America. The only papers on Neotropical tethinids are by Hennig (1936) and Prado & Tavares (1966).

I have indicated the type depositories as they are given in the original literature and the abbreviations are as follows: CAS = California Academy of Sciences, San Francisco; BM(NH) = British Museum (Natural History), London; IOC = Instituto Oswaldo Cruz, Rio de Janeiro; MCZ = Museum of Comparative Zoology, Harvard University, Cambridge; USNM = United States National Museum, Washington, D.C.; and Zool. Mus., Oslo = Zoologiske Museum, Oslo.

I would like to express my gratitude to Dr. F. Christian Thompson of the U.S. Department of Agriculture, Systematic Entomology Laboratory, Washington, D.C., for his valuable comments on the manuscript.

## Genus PELOMYIA Williston

PELOMYIA Williston, 1893: 258. Type-species, *occidentalis* Williston (mon.).

CORONATA (Loew), 1866: 185 (*Rhinoessa*). Type-locality: U.S.A., Georgia.  
Distr. — North America; Mexico (Durango); Peru. Type(s) ♀,  
MCZ.



- INTERMEDIA Malloch, 1934: 460. Type-locality: Argentina, Bahia Blanca. Distr. — Argentina (Buenos Aires). Type ♀, BMNH.
- PERUVIANA Malloch, 1934: 458. Type-locality: "Peru". Distr. — Peru (Lima, Cuzco, Puno); Bolivia (La Paz); Chile (Antofagasta to ?Magallanes [Tacna (Hennig, 1936: 140)]). Type ♀, USNM.
- TRIVITTATA Malloch, 1934: 459. Type-locality: Chile, Renaico. Distr. — Chile (Valparaiso to Malleco). Type ♂, USNM.
- VIEDMAE Malloch, 1934: 460. Type-locality: Argentina, Viedma. Distr. — Argentina (Rio Negro). Type ♂, BMNH.

### Genus TETHINA Haliday

- Opomyza*, subg. TETHINA Haliday, 1838: 188. Type-species, *illota* Haliday (mon.).
- Rhinoessa* Loew, 1862: 174. Type-species, *cinerea* Loew (mon.) = *grisea* (Fallén).
- Phycomyza* Melander, 1952: 198. Type-species, *Rhinoessa milichioides* Melander (orig. des.).
- ALBULA (Loew), 1869: 44 (*Rhinoessa*). Type-locality: U.S.A., Rhode Island, Newport. Distr. — North America; Hawaii; Argentina (Chubut); Chile (Tarapacá). Types ♂ ♀, MCZ. Ref. — Prado & Tavares, 1966: 431, figs. 1-6 (male genitalia) (redescr.).
- BRASILIENSIS Prado & Tavares, 1966: 435, figs. 15-23 (male genitalia), 24-25 (female genitalia). Type-locality: Brazil, Guanabara, Ilha do Governador (Galeão). Distr. — Brazil (Rio Grande do Norte, Bahia, Guanabara). Type ♂, IOC.
- CARIOCA Prado & Tavares 1966: 433, figs. 7-13 (male genitalia), 14 (wing). Type-locality: Brazil, Guanabara, Ilha do Governador (Galeão). Distr. — Brazil (Rio de Janeiro, Guanabara). Type ♂, IOC.
- albula* (Loew) of Frey, 1919: 15, misident.
- CHILENSIS Malloch, 1934: 455. Type-locality: Chile, Antofagasta. Distr. — Chile (Antofagasta). Type ♂, USNM.
- INSULANS Curran, 1932: 358. Type-locality: Galápagos Is., Floreana, Post Office Bay, Seaside. Distr. — Galápagos Is. (Floreana). Type ♂, Zool. Mus., Oslo.
- SETULOSA Malloch, 1934: 454. Type-locality: Chile, Tocopilla. Distr. — Chile (Tarapacá to Antofagasta). Type ♂, USNM.
- SONORENSIS (Melander), 1952: 207 (*Rhinoessa*). Type-locality: Mexico, Sonora, Rocky Point Marsh. Distr. — Mexico (Sonora). Lectotype ♂ [here designated and deposited in USNM, labelled "Sonora, Mexico, Rocky Pt. Marsh, 21 April '47, A. L. Melander" (1st label); "Lectotype, *Tethina sonorensis* (Melander), George A. Foster 1974" (2nd label)]; paralectotypes ♂, CAS and USNM.
- SPINULOSA Cole, 1923: 478. Type-locality: Mexico, Baja California, Las Animas Bay. Distr. — U.S.A. (southern California); Mexico (Baja California). Type ♂, CAS.

WILLISTON (Melander), 1913: 298 (*Rhinoessa*; nom. nov. for *cinerea* Williston). Type-locality: St. Vincent Is. Distr. — St. Vincent Is.; Jamaica. 12 Syntypes, BM(NH).

*cinerea* Williston, 1896: 444 (*Anthomyza*; preocc. Loew, 1862). Type-locality: St. Vincent Is.

XANTHOPODA (Williston), 1896: 445 (*Anthomyza*). Type-locality: St. Vincent Is. Distr. — St. Vincent Is. 3 Syntypes, BM(NH).

#### LITERATURE CITED

COLE, F. R.

1923. Expedition of the California Academy of Sciences to the Gulf of California in 1921 — Diptera from the islands and adjacent shores of the Gulf of California. II. General report. *Proc. Calif. Acad. Sci.* 12(25): 457-481.

COLLIN, J. E.

1966. A revision of the Palearctic species of *Tethina* and *Rhinoessa*. *Boll. Mus. civ. Stor. nat. Venezia* 16 (1963): 19-32.

CURRAN, C. H.

1932. The Norwegian Zoological Expedition to the Galapagos Islands 1925, conducted by Alf Wollebaek. *Meddr. zool. Mus. Oslo* 30: 358-359.

FREY, R.

1919. Mittheilungen über südamerikanische Dipteren. *Oef. finsk. Vet. Soc. Förhandl.* 60(A)(14): 1-35.

HALIDAY, A. H.

1838. New British insects indicated in Mr. Curtis's Guide. *Ann. Mag. nat. Hist.* 2: 183-190.

HENDEL, F.

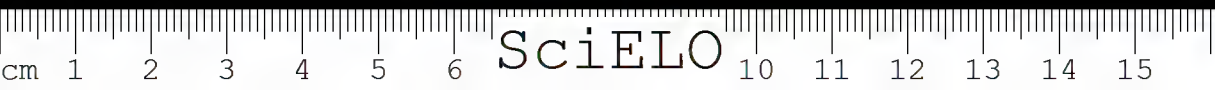
1934. Revision der Tethiniden (Dipt. Muscid. acal.). *Tijdschr. Ent., Amst.* 77: 37-54.

HENNIG, W.

1936. Systematisch-geographische Beiträge zur Kenntnis der Tethiniden (Dipt. — Acalypt.). *Ent. Rdschau* 54: 136-140, 2 figs.

LOEW, H.

1862. Ueber einige bei Varna gefangene Dipteren. *Wien. ent. Monatschr.* 6: 161-175.  
1866. Diptera Americae septentrionalis indigena. Centuria sexta. *Berl. ent. Z.* 9: 127-186.  
1869. Diptera Americae septentrionalis indigena. Centuria octava. *Berl. ent. Z.* 13: 1-52.





MALLOCH, J. R.

1934. *Acalyptrata*, in *British Museum (Natural History), Diptera of Patagonia and South Chile*, 6(5): 393-489. London.

MELANDER, A. L.

1913. A synopsis of the dipterous groups Agromyzinae, Milichiinae, Oethophilinae and Geomyzinae. *J. N. Y. ent. Soc.* 21: 219-300.  
1952. The North American species of Tethinidae (Diptera). *J. N. Y. ent. Soc.* 59: 187-212.

PRADO, A. P. DO & O. TAVARES

1966. Sobre duas espécies novas do gênero "*Tethina*" Haliday, 1838 (Dipt.: Tethinidae). *Revta. bras. Biol.* 26: 429-439.

WILLISTON, S. W.

1893. In C. V. Riley, Report on a small collection of insects, made during the Death Valley Expedition. *N. Am. Fauna* 7: 235-268.  
1896. On the Diptera of St. Vincent (West Indies). *Trans. ent. Soc. London 1896*: 253-446.

# INDEX

|   |      |
|---|------|
| albula (Loew), 1869 ( <i>Rhinoessa</i> ), <i>Tethina</i> .....          | 74.2 |
| albula (Loew) of Frey, 1919, <i>Tethina</i> .....                       | 74.2 |
| brasilensis Prado & Tavares, 1963, <i>Tethina</i> .....                 | 74.2 |
| carioca Prado & Tavares, 1966, <i>Tethina</i> .....                     | 74.2 |
| chilensis Malloch, 1934, <i>Tethina</i> .....                           | 74.2 |
| cinerea (Williston), 1896 ( <i>Anthomyza</i> ), <i>Tethina</i> .....    | 74.3 |
| coronata (Loew), 1866 ( <i>Rhinoessa</i> ), <i>Pelomyia</i> .....       | 74.1 |
| insulans Curran, 1932, <i>Tethina</i> .....                             | 74.2 |
| intermedia Malloch, 1932, <i>Pelomyia</i> .....                         | 74.2 |
| <i>Pelomyia</i> Williston, 1893 .....                                   | 74.1 |
| peruviana Malloch, 1934, <i>Pelomyia</i> .....                          | 74.2 |
| <i>Phycomyza</i> Melander, 1952 .....                                   | 74.2 |
| <i>Rhinoessa</i> Loew, 1862 .....                                       | 74.2 |
| setulosa Malloch, 1934, <i>Tethina</i> .....                            | 74.2 |
| sonorensis (Melander), 1952 ( <i>Rhinoessa</i> ), <i>Tethina</i> .....  | 74.2 |
| spinulosa Cole, 1923, <i>Tethina</i> .....                              | 74.2 |
| <i>Tethina</i> Haliday, 1838 .....                                      | 74.2 |
| trivittata Malloch, 1934, <i>Pelomyia</i> .....                         | 74.2 |
| viedmae Malloch, 1934, <i>Pelomyia</i> .....                            | 74.2 |
| willistoni (Melander), 1913 ( <i>Rhinoessa</i> ), <i>Tethina</i> .....  | 74.3 |
| xanthopoda (Williston), 1896 ( <i>Anthomyza</i> ), <i>Tethina</i> ..... | 74.3 |

74.4

MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO  
(FORMERLY DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

75

FAMILY MILICHIIDAE

(PHYLLOMYZIDAE, INCLUDING CARNIDAE)

CURTIS W. SABROSKY

*Entomology Research Division, Agr. Res. Serv.*  
*U. S. Department of Agriculture*  
*Washington, D. C.*

Milichiid flies are small and inconspicuous, usually black, often dull or subshining but sometimes highly polished. In males of some species, the abdominal dorsum is all or partly silvery, flashing brilliantly as the males dance in the sun. The larvae are saprophagous or coprophagous, and there are numerous rearing records from manure, compost heaps, decaying plants or plant materials, birds' nests, etc. Some species are associated with ants, and at least some of these have been reared from detritus deep in the nests of leaf-cutting ants (*Atta*). Adults of some species have a commensal relationship with predatory insects, riding on them and sucking juices that exude from the victims.

Some species are easily spread in commerce and have become virtually cosmopolitan. Most Neotropical genera are unrevised, and many undescribed species are known in some of them.

References: Curran, 1934 (key to genera); Hennig, 1937 (general, key to genera), 1956 (larvae).

Subfamily CARNINAE

This chiefly Holarctic group is sometimes recognized as a separate family. Ref. — Hennig, 1972 (rev.).

Genus MEONEURA Rondani

MEONEURA Rondani, 1856:128. Type-species, *Agromyza obscurella* Fallén (orig. des.). Ref. — Sabrosky, 1959a (rev.).

POLITA Sabrosky, 1959a:20. Type-locality: U.S.A., Texas, Fort Stockton.  
Distr. — Western U.S.A., Mexico (Morelos).  
sp. Peru (Sabrosky, 1959a).

75.1

## Genus NEOMEONEURITES Hennig

NEOMEONEURITES Hennig, 1972:1. Type-species, *chilensis* Hennig (orig. des.).

CHILENSIS Hennig, 1972:1, figs. 1-9, 13, 16, 19-21. Type-locality: Chile, Santiago Prov., western slopes of Andes, along route between Santiago and Farellones, Farellones, 2950 m. Distr. — Chile (Santiago).

## Subfamily MADIZINAE

### Genus COSTALIMA Sabrosky

COSTALIMA Sabrosky, 1953:40. Type-species, *myrmicola* Sabrosky (orig. des.).

MYRMICOLA Sabrosky, 1953:41. Type-locality: Brazil, Minas Gerais, Viçosa. Distr. — ?Panama (Canal Zone), Brazil (Minas Gerais).

### Genus DESMOMETOPA Loew

DESMOMETOPA Loew, 1866:184 (Centuria 6, no. 96). Type-species, *Agromyza m-atrum* Meigen (Hendel, 1903:251) = *sordida* (Fallén).

*Platophrymyia* Williston, 1896:426. Type-species, *nigra* Williston (mon.).

*Platophrymia* (error) Aldrich, 1905:649.

FLAVICOXA Hendel, 1932:143. Type-locality: N. Argentina, Tacaaglé. Distr. — Paraguay, Argentina.

INAURATA Lamb, 1914:363. Type-locality: Seychelles. Distr. — Bahamas, Puerto Rico, Virgin Is., Dominica, El Salvador, also widely recorded in Ethiopian Region, Australia, Samoa, Hawaii.

M-NIGRUM (Zetterstedt), 1848:2743 (*Agromyza*). Type-locality: Sweden. Distr. — Cuba, Dominica, Jamaica, Chile, also virtually cosmopolitan.

PALPALIS Meijere, 1914:251. Type-locality: Java and Sumatra. Distr. — Brazil (São Paulo), Puerto Rico.

SINGAPORENSIS Kertész, 1899:194. Type-locality: Singapore. Distr. — Antigua, Bolivia, Brazil (São Paulo), Chile, Clipperton I., Cuba, Galapagos Is., Mexico (Veracruz), Panama and Canal Zone, Puerto Rico, Virgin Islands, also U.S.A. and widely recorded in Mediterranean Subregion, Africa, the Oriental Region, and Australasia.

TARSALIS Loew, 1866:184 (Centuria 6, no. 96). Type-locality: "Cuba". Distr. — Costa Rica, Dominican Republic, Mexico, Dominica, St. Vincent. *nigra* Williston, 1896:426 (*Platophrymyia*). Type-locality: St. Vincent.

### Genus LEPTOMETOPA Becker

LEPTOMETOPA Becker, 1903:188. Type-species, *rufifrons* Becker (mon.).

*Hypaspistomyia* Hendel, 1907:240. Type-species, *coquilletti* Hendel (mon.).

*Paramadiza* Malloch in Melander, 1913b:169 (preocc. Melander, 1913). Type-species, *Desmometopa halteralis* Coquillett (mon.).

*Mallochiella* Melander, 1913b:169 (nom. nov. for *Paramadiza* Malloch).  
Type-species, *Desmometopa halteralis* Coquillett (aut.).

HALTERALIS (Coquillett), 1900:267 (*Desmometopa*). Type-locality: Puerto Rico, Utuado. Distr. — Bahamas, Mexico (Veracruz), also U.S.A., southern Canada.

LATIPES (Meigen), 1830:177 (*Agromyza*). Type-locality: Germany. Distr. — Cuba, also widespread, Nearctic and Palearctic Regions, Formosa, Malaya.

#### Genus MICROSIMUS Aldrich

MICROSIMUS Aldrich, 1926:2. Type-species, *luteus* Aldrich (orig. des.).

LUTEUS Aldrich, 1926:3. Type-locality: Bolivia, Isiamas.

#### Genus NEOPHYLLOMYZZA Melander

NEOPHYLLOMYZZA Melander, 1913a:243. Type-species, *quadricornis* Melander (orig. des.).

MAGNIPALPIS (Williston), 1896:443 (*Phyllomyza*). Type-locality: St. Vincent. *magnipalpus* (error) Melander, 1913a:243.

#### Genus PARAMYIA Williston

PARAMYIA Williston, 1897:1. Type-species, *nigra* Williston (mon.).

FUMIPENNIS Malloch, 1934:465. Type-locality: Peru, Iquitos.

NIGRA Williston, 1897:2. Type-locality: Grenada. ? = *nitens*.

NITENS (Loew), 1869:45 (Centuria 8, no. 82) (*Phyllomyza*). Type-locality: U.S.A., Pennsylvania. Distr. — Mexico (Nayarit), also U.S.A., southern Canada. Recorded s. to Chile and s. Brazil.

#### Genus PHYLLOMYZZA Fallén

PHYLLOMYZZA Fallén, 1810:20. Type-species, *securicornis* Fallén (sub. mon., Fallén, 1823:8).

Undescribed spp. Colombia, Costa Rica, Panama and Canal Zone, Trinidad.

#### Genus STOMOSIS Melander

STOMOSIS Melander, 1913a:242. Type-species, *Desmometopa luteola* Coquillett (orig. des.) = *innominata* (Williston).

*Siphonomyiella* Frey, 1919 (?1918):16. Type-species, *rufula* Frey (orig. des.). Ref. — Sabrosky, 1958 (key).

INNOMINATA (Williston), 1896:443 (*Agromyza*). Type-locality: St. Vincent. Distr. — Colombia, Costa Rica, El Salvador, Honduras, Mexico (Chiapas), Panama and Canal Zone, Trinidad, also Arizona.

*luteola* Coquillett, 1902:188 (*Desmometopa*). Type-locality: U.S.A., Arizona, Williams.



RUFULA (Frey), 1919 (?1918):18 (*Siphonomyiella*). Type-locality: Brazil, Rio de Janeiro.

### Subfamily MILICHIINAE

#### Genus ECCOPTOMMA Becker

ECCOPTOMMA Becker, 1907:540. Type-species, *frontale* Becker (Malloch, 1934: 463). Ref. — Becker, 1907 (key).

CONCAVUM Becker, 1907:541. Type-locality: Chile, Santiago.

FRONTALE Becker, 1907:542. Type-locality: Chile, Coronel. Distr. — Argentina, Chile (Valparaiso).

MONTANUM Becker, 1907:541. Type-locality: Chile, Peru, Cuzco, and Bolivia, Sorata.

#### Genus MILICHIA Meigen

MILICHIA Meigen, 1830:131. Type-species, *speciosa* Meigen (Westwood, 1840: 151).

AETHIOPS Malloch, 1913:133. Type-locality: U.S.A., Texas, Harlingen. Distr. — Mexico (Baja California, Nuevo Leon, Zacatecas).

#### Genus MILICHIELLA Giglio-Tos

MILICHIELLA Giglio-Tos, 1895:367. Type-species, *Tephritis argentea* Fabricius (mon.; misident.) = *tosi* Becker. A case of misidentified type-species that should be submitted to the Commission.

*Ophthalmomyia* Williston, 1896:426. Type-species, *Lobioptera lacteipennis* Loew (mon.).

Ref. — Becker, 1907 (partial key).

ABERRATA Becker, 1907:538. Type-locality: Bolivia, Sorata, and Peru, Rosalina, Rio Urubamba.

ARGENTEOCINCTA Johnson, 1919:449. Type-locality: Jamaica, Kingston.

BISIGNATA Melander, 1913a:239. Type-locality: U.S.A., New Jersey, Riverton. Distr. — Costa Rica, Mexico (Hidalgo). ? = *lucidula* Becker.

CINEREA (Coquillett), 1900:268 (*Ophthalmomyia*). Type-locality: Puerto Rico, Bayamon. Distr. — "Santo Domingo, West Indies".

CINGULATA Becker, 1907:538. Type-locality: Peru, Pichis, Puerto Bermúdez.

DIMIDIATA (Wiedemann), 1830:597 (*Chlorops*). Type-locality: Surinam. Unrecognized.

FLAVIPALPIS Hendel, 1932:142. Type-locality: Bolivia, San José de Chiquitos. Distr. — Argentina (Misiones).

LACTEIPENNIS (Loew), 1866:185 (Centuria 6, no. 97) (*Lobioptera*). Type-locality: Cuba. Distr. — Brazil, Chile (Angol, Valparaiso), Costa Rica, Dominica, Grenada, Hispaniola, Jamaica, Mexico (Jalisco), Nicaragua, Panama, Peru, Puerto Rico, St. Vincent, Venezuela, Virgin Is. (St. Thomas), also virtually cosmopolitan.

- LUCIDULA Becker, 1907:537. Type-locality: Peru, Callanga, and Bolivia, Sorata.
- NITIDA (Walker), 1836:359 (*Gymnopa*). Type-locality: Brazil, "St. Catherine's", N. COMB.
- NUDIVENTRIS Becker, 1907:537. Type-locality: Bolivia, Mapiri Sarampiuni, 700 m.
- TRICINCTA Becker, 1907:540. Type-locality: Chile, Arica.
- VELUTINA Becker, 1907:539. Type-locality: Peru, Rosalina, Rio Urubamba.
- VIDUA Becker, 1907:539. Type-locality: Peru, Rio Urubamba, Umahuankiali.

#### Genus PHOLEOMYIA Bilimek

- PHOLEOMYIA Bilimek, 1867:903. Type-species, *leucozona* Bilimek (mon.).
- Rhynchomilichia* Hendel, 1903:250. Type-species, *Lobioptera argyrophenga* Schiner (orig. des.; misident.) = *schineri* Hendel.
- Paramilichia* Malloch, 1913:135. Type-species, *Milichia longiseta* Becker (mon.). Refs. — Becker, 1907 (partial key, as *Rhynchomilichia*).
- Sabrosky, 1959b (key, N. Amer. spp.).
- AEQUATORIALIS Séguy, 1934:14. Type-locality: Ecuador, El Napo.
- ANOMALA Hendel, 1933:82. Type-locality: Brazil, Soledade.
- ANTHRACINA (Becker), 1907:525 (*Rhynchomilichia*). Type-locality: Paraguay, Asunción.
- ARGYRATA Hendel, 1932:137. Type-locality: N. Argentina, Tapikiolé.
- ARGYROPHENGA (Schiner), 1868:291 (*Lobioptera*). Type-locality: "South America". Distr. — Bolivia, Peru.
- argyrocephala* (error) Hendel, 1932:135.
- argyrogastra* (error) Hendel, 1932:135.
- DAMPTI Sabrosky, 1959b:328. Type-locality: Guatemala, Petén, Caves of Jobitzinal near Flores. Distr. — Mexico (Tabasco).
- EXCELSIOR (Becker), 1907:526 (*Rhynchomilichia*). Type-locality: Bolivia, Mapiri, Sarampiuni, 700 m.
- FASCIVENTRIS (Becker), 1907:528 (*Rhynchomilichia*). Type-locality: Bolivia, Mapiri, Sarampiuni, 700 m.
- HURDI Sabrosky, 1959b:324. Type-locality: Mexico, Nayarit, Ahuacatlan. Distr. — Mexico (Nuevo Leon, Jalisco).
- indecora* (Loew). Not Neotropical. Published records refer to *myopa* or *politifacies*.
- INSECTA (Becker), 1907:527 (*Rhynchomilichia*). Type-locality: Bolivia, Mapiri, S. Carlos, 800 m.
- LATIFRONS Sabrosky, 1959b:321. Type-locality: Bahamas, Eleuthera I., Governor's Harbor. Distr. — Bahamas, ? Cuba.
- LEUCOGASTRA (Loew), 1861:43 (*Milichia*). Type-locality: Cuba. Distr. — Mexico (Guerrero, Jalisco, Morelos), St. Vincent.

- LEUCOZONA Bilimek, 1867:903. Type-locality: Mexico, cave Cacahuamilpa.  
*cacahuamilpensis* Herrera, 1892:272 (unnecessary nom. nov.). Type-locality: Mexico, cave Cacahuamilpa.
- LONGIFACIES Hendel, 1933:81. Type-locality: Brazil, and Paraguay, San Bernardino.
- LONGISETA (Becker), 1907:530 (*Milichia*). Type-locality: Paraguay, Asunción. Distr. — Argentina (Chaco, Formosa), Nicaragua.
- MYOPA Melander, 1913a:238. Type-locality: "Hayti". Distr. — Bahamas, Bolivia, Brazil (Mato Grosso, Pará), Costa Rica, Cuba, Dominica, Dominican Republic, Mexico (Tabasco), Panama Canal Zone, Puerto Rico, Trinidad, Venezuela, also Florida.
- PALPARIS (Becker), 1907:524 (*Rhynchomilichia*). Type-locality: Paraguay, Asunción.
- PECTORALIS Hendel, 1932:138. Type-locality: Bolivia, Villa Montes.
- POLITIFACIES Sabrosky, 1959b:323. Type-locality: Dominican Republic, Prov. Trujillo, Cambito. Distr. — Barbados, Brazil (Pará), Colombia, Costa Rica, Dominica, El Salvador, Mexico (Jalisco, Morelos, Tabasco, Tamaulipas), Panama Canal Zone, Puerto Rico (Vieques I.), Trinidad, also Society Is. (Tahiti) and Central Africa.
- PRAEOCELLARIS Hendel, 1932:139. Type-locality: Bolivia, Villa Montes.
- PRAESECTA (Becker), 1907:525 (*Rhynchomilichia*). Type-locality: Peru, mouth of Rio Pachitea. ? = *leucozona*.
- PROMINENS (Becker), 1907:526 (*Rhynchomilichia*). Type-locality: Peru, Chanchamayo, and Bolivia, Mapiri, Sarampiuni, 700 m.
- QUADRIFASCIATA Hendel, 1932:139. Type-locality: Bolivia, Esmeralda, Rio Pilcomayo.
- SCHINERI (Hendel), 1932:136 (*Rhynchomilichia*). Type-locality: "Brazil". Distr. — Argentina, Brazil (Mato Grosso, Santa Catarina), Paraguay.  
*argyrophenga* Schiner of Hendel, 1903, and Becker, 1907 (misident.).
- SORORCULA (Becker), 1907:521 (*Rhynchomilichia*). Type-locality: "Bolivia, Peru".

#### Genus PSEUDOMILICHIA Becker

- PSEUDOMILICHIA Becker, 1907:542. Type-species, *schnusei* Becker (Hendel, 1932:135).
- Macromilichia* Hendel, 1932:140. Type-species, *nigricosta* Hendel (orig. des.).
- IMPLICATA Becker, 1907:543. Type-locality: Peru, Pichis, Puerto Bermúdez.
- SCHNUSEI Becker, 1907:543. Type-locality: Peru, Meshagua, and Bolivia, Mapiri, San Antonio.  
*nigricosta* Hendel, 1932:142 (*Macromilichia*). Type-locality: Bolivia, "El Cairo", northwest of Santa Cruz de la Sierra.

## Genus ULLA Becker

- ULLA Becker, 1907:544. Type-species, *poecilogastra* Becker (mon.).  
POECILOGASTRA Becker, 1907:544. Type-locality: Peru, Pichis and Rosalina.  
Distr. — Bolivia, Costa Rica.

### LITERATURE CITED

ALDRICH, J. M.

1905. A catalogue of North American Diptera. *Smithsn. Misc. Coll.* 46(2): 680 pp.  
1926. Descriptions of new and little-known Diptera or two-winged flies. *Proc. U. S. Natl. Mus.* 69 (Art. 22): 1-26.

BECKER, TH.

1903. Ägyptische Dipteren. *Mitt. Zool. Mus. Berlin* 2 (Heft 3): 67-195, 4 pls.  
1907. Die Dipteren-Gruppe Milichinae. *Ann. Mus. Nat. Hung.* 5:507-550, pl. 12, 2 text-figs.

BILIMEK, D.

1867. Fauna der Grotte Cacahuamilpa in Mexico. *Verh. k.-k. zool.-bot. Ges. Wien* 17 (Abhandl.): 901-908.

COQUILLET, D. W.

1900. Report on a collection of dipterous insects from Puerto Rico. *Proc. U. S. Natl. Mus.* 22:249-270.  
1902. New acalyptrate Diptera from North America. *Jour. New York Ent. Soc.* 10:191-194.

CURRAN, C. H.

1934. *The families and genera of North American Diptera*, 512 pp., 235 figs., 2 pls. New York.

FALLÉN, C. F.

1810. *Specim. entomolog. novam Diptera disponendi methodum exhibens*, 26 pp., 1 pl. Lund.  
1823. *Phytomyzides et Ochthidae Sveciae*, 10 pp. Lund.

FREY, R.

- 1919 (1918?). Mitteilungen über südamerikanische Dipteren. *Öfvers. Finska Vetenskaps-Soc. Förhandl.* (1917-18) 60 (Afd. A, n° 14): 35 pp., 1 pl.

GIGLIO-TOS, E.

1895. Mission scientifique de M. Ch. Alluand aux îles Séchelles. 5e. Mémoire. Diptères. *Ann. Soc. Ent. France* 64:353-368.

HENDEL, F.

1903. Kritische Bemerkungen zur Systematik der Muscidae acalyptratae. *Wien. Ent. Ztg.* 22:249-252.



1907. Neue und interessant Dipteren aus dem kaiserl. Museum in Wien. *Wien Ent. Ztg.* 26:223-245, 1 pl.
1932. Die Ausbeute der deutschen Chaco-Expedition 1925/26. — Diptera (Fortsetzung). *Konowia* 11:115-145, 15 figs.
1933. Ueber einige Typen Wiedemann's und Schiner's von acalyptraten Musciden aus Südamerika, nebst einigen verwandten Arten (Dipt.). *Rev. de Ent.* (Rio de Janeiro), 3:58-83, 1 fig.

HENNIG, W.

1937. Milichiidae et Carnidae. [Family] 60a, 91 pp., 100 figs., in E. Lindner, ed., *Die Fliegen der palaearktischen Region*, Lfg. 115.
1956. Beitrag zur Kenntnis der Milichiiden-Larven. *Beitr. Ent.* 6: 138-145, 10 figs.
1972. Beiträge zur Kenntnis der rezenten und fossilen Carnidae, mit besonderer Berücksichtigung einer neuen Gattung aus Chile (Diptera: Cyclorrhapha). *Stuttgarter Beitr. Naturk.* 240:1-20, 23 figs.

HERRERA, A. L.

1892. Expedicion a la gruta Cacahuamilpa. Fauna cavernicola de Cacahuamilpa. *Estudio* (Mexico) 4:268-281, pls. 14-15.

JOHNSON, C. W.

1919. A revised list of the Diptera of Jamaica. *Bull. Amer. Mus. Nat. Hist.* 41:421-449.

KERTÉSZ, K.

1899. Verzeichniss einiger, von L. Biró in Neu-Guinea und am Malayischen Archipel gesammelten Dipteren. *Természetr. Füzet.* 22: 173-195, 10 figs.

LAMB, C. G.

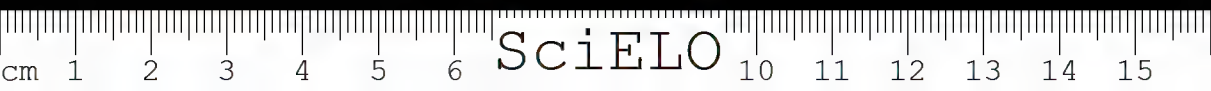
1914. The Percy Slanden Trust Expedition to the Indian Ocean in 1905, under the leadership of Mr. J. Stanley Gardiner, M. A. Vol. V, N° XV. Diptera: Heteroneuridae, Ortalidae, Trypetidae, Sepsidae, Micropezidae, Drosophilidae, Geomyzidae, Milichiidae. *Trans. Linn. Soc. London*, ser. 216:307-372, 48 figs., 3 pls.

LOEW, H.

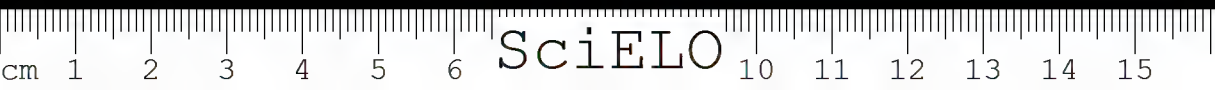
1861. Diptera aliquot in insula Cuba collecta. *Wien. Ent. Monatschr.* 5:33-43.
1866. Diptera Americae septentrionalis indigena. Centuria sexta. *Berlin. Ent. Ztschr.* (1865) 9:127-186.
1869. Diptera Americae septentrionalis indigena. Centuria octava. *Berlin. Ent. Ztschr.* 13:1-52.

MALLOCH, J. R.

1913. A synopsis of the genera of Agromyzidae, with descriptions of new genera and species. *Proc. U. S. Natl. Mus.* 46:127-154, pls. 4-6.



1934. Acalyptrata [concl.], pp. 393-489, pl. 8, figs. 69-84, in *British Museum (Natural History), Diptera of Patagonia and South Chile* 6(5). London.
- MEIGEN, J. W.
1830. *Systematische Beschreibung der bekannten europäischen Dipteren*, 6:4 + 401 pp., pls. 55-66.
- MEIJERE, J. C. H. DE
1914. Studien über südostasiatischen Dipteren IX. *Tijdschr. Ent.* 57: 137-276, pls. 5-7.
- MELANDER, A. L.
- 1913a. A synopsis of the dipterous groups Agromyzinae, Milichiinae, Ochthiphilinae and Geomyzinae. *Jour. New York Ent. Soc.* 21: 219-273, 283-300, pl. 8.
- 1913b. Some acalyptrate Muscidae. *Psyche* 20:166-169, 1 fig.
- RONDANI, C. W.
1856. *Dipterologiae Italicae Prodromus* 1:228 pp. Parma.
- SABROSKY, C. W.
1953. Two new species of Milichiidae, with miscellaneous notes on the family. *Ent. News* 64:38-42.
1958. New species and notes on North American acalyptrate Diptera. *Ent. News* 69:169-176.
- 1959a. The nearctic species of the filth fly genus *Meoneura* (Diptera, Milichiidae). *Ann. Ent. Soc. Amer.* 52:17-26, 1 pl.
- 1959b. A revision of the genus *Pholeomyia* in North America (Diptera, Milichiidae). *Ann. Ent. Soc. Amer.* 52:316-331, 1 pl.
- SCHINER, J. R.
1868. Diptera [Art. 1], 388 pp., 4 pls., in *Reise der österreichischen Fregatte Novara 2* (Abt. 1, Sec. B). Wien.
- SÉGUY, E.
1934. Étude sur quelques Muscides de l'Amérique Latine. *Rev. Soc. Ent. Argentina* 6:9-16, 3 figs.
- WALKER, F.
1836. Descriptions, etc., of the Diptera, pp. 331-359, in Curtis, J., A. H. Haliday & F. Walker, Descriptions, etc., of the insects collected by Cpt. P. P. King, R. N., F. R. S., in the survey of the Straits of Magellan. *Trans. Linn. Soc. London* 17:315-359.
- WESTWOOD, J. O.
1840. Diptera, pp. 125-158, in Synopsis of the genera of British insects, in his *An Introduction to the modern classification of insects*.



WIEDEMANN, C. R. W.

1830. *Aussereuropäische zweiflügelige Insekten* 2:xii + 684 pp., 5 pls.

WILLISTON, S. W.

1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London* 1896:253-446, pls. 8-14.

1897. Diptera Brasiliana. Part 4. *Kansas Univ. Quarterly*, Ser. A, 6: 1-12.

ZETTERSTEDT, J. W.

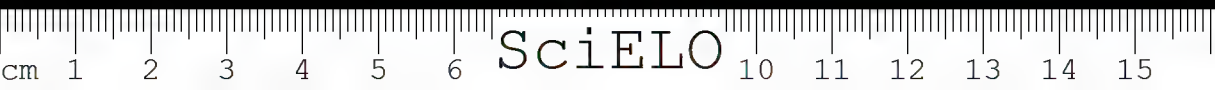
1848. *Diptera Scandinaviae* 7:2581-2934.

## INDEX

|   |      |
|---|------|
| aberrata Becker, 1907, <i>Milichiella</i> .....   | 75.4 |
| aequatorialis Séguy, 1934, <i>Pholeomyia</i> .....  | 75.5 |
| aethiops Malloch, 1913, <i>Milichia</i> .....   | 75.4 |
| anomala Hendel, 1933, <i>Pholeomyia</i> .....   | 75.5 |
| anthracina (Becker), 1907 ( <i>Rhynchomilichia</i> ), <i>Pholeomyia</i> .....               | 75.5 |
| argenteocincta Johnson, 1919, <i>Milichiella</i> .....                                      | 75.4 |
| argyrata Hendel, 1932, <i>Pholeomyia</i> .....  | 75.5 |
| argyrocephala Hendel, 1932, <i>Pholeomyia</i> (error) .....                                 | 75.5 |
| argyrogastra Hendel, 1932, <i>Pholeomyia</i> (error) .....                                  | 75.5 |
| argyrophenga (Schiner), 1868 ( <i>Lobioptera</i> ), <i>Pholeomyia</i> .....                 | 75.5 |
| argyrophenga Schiner of Hendel, 1903, and Becker, 1907, <i>Pholeomyia</i> (misident.) ..... | 75.6 |
| bisignata Melander, 1913, <i>Milichiella</i> .....  | 75.4 |
| cacahuamilpensis Herrera, 1892, <i>Pholeomyia</i> .....                                     | 75.6 |
| Carninae .....  | 75.1 |
| chilensis Hennig, 1972, <i>Neomeoneurites</i> .....   | 75.2 |
| cinerea (Coquillett), 1900 ( <i>Ophthalmomyia</i> ), <i>Milichiella</i> .....               | 75.4 |
| cingulata Becker, 1907, <i>Milichiella</i> .....  | 75.4 |
| concavum Becker, 1907, <i>Eccoptomma</i> .....  | 75.4 |
| Costalima Sabrosky, 1953 .....  | 75.2 |
| dampfii Sabrosky, 1959, <i>Pholeomyia</i> .....   | 75.5 |
| Desmometopa Loew, 1866 .....  | 75.2 |
| dimidiata (Wiedemann), 1830 ( <i>Chlorops</i> ), <i>Milichiella</i> .....                   | 75.4 |
| Eccoptomma Becker, 1907 .....   | 75.4 |
| excelsior (Becker), 1907 ( <i>Rhynchomilichia</i> ), <i>Pholeomyia</i> .....                | 75.5 |
| fasciventris (Becker), 1907 ( <i>Rhynchomilichia</i> ), <i>Pholeomyia</i> .....             | 75.5 |
| flavicoxa Hendel, 1932, <i>Desmometopa</i> .....  | 75.2 |
| flavipalpis Hendel, 1932, <i>Milichiella</i> .....  | 75.4 |
| frontale Becker, 1907, <i>Eccoptomma</i> .....  | 75.4 |
| fumipennis Malloch, 1934, <i>Paramyia</i> .....   | 75.3 |

75.10

|  |      |
|--|------|
| <i>halteralis</i> (Coquillett), 1900 (Desmometopa), Leptometopa .....  | 75.3 |
| <i>hurdi</i> Sabrosky, 1959, Pholeomyia .....                          | 75.5 |
| <i>Hypaspistomyia</i> Hendel, 1907 .....                               | 75.2 |
| <i>implicata</i> Becker, 1907, Pseudomilichia .....                    | 75.6 |
| <i>inaurata</i> Lamb, 1914, Desmometopa .....                          | 75.2 |
| <i>indecora</i> (Loew), Pholeomyia .....                               | 75.5 |
| <i>innominata</i> (Williston), 1896 (Agromyza), Stomosis .....         | 75.3 |
| <i>insecta</i> (Becker), 1907 (Rhynchomilichia), Pholeomyia .....      | 75.5 |
| <i>lacteipennis</i> (Loew), 1866 (Lobioptera), Milichiella .....       | 75.4 |
| <i>latifrons</i> Sabrosky, 1959, Pholeomyia .....                      | 75.5 |
| <i>latipes</i> (Meigen), 1830 (Agromyza), Leptometopa .....            | 75.3 |
| <i>Leptometopa</i> Becker, 1903 .....                                  | 75.2 |
| <i>leucogastra</i> (Loew), 1861 (Milichia), Pholeomyia .....           | 75.5 |
| <i>leucozona</i> Bilimek, 1867, Pholeomyia .....                       | 75.6 |
| <i>longifacies</i> Hendel, 1933, Pholeomyia .....                      | 75.6 |
| <i>longiseta</i> (Becker), 1907 (Milichia), Pholeomyia .....           | 75.6 |
| <i>lucidula</i> Becker, 1907, Milichiella .....                        | 75.5 |
| <i>luteola</i> (Coquillett), 1902 (Desmometopa), Stomosis .....        | 75.3 |
| <i>luteus</i> Aldrich, 1926, Microsimus .....                          | 75.3 |
| <i>Macromilichia</i> Hendel, 1932 .....                                | 75.6 |
| <i>Madizinae</i> .....   | 75.2 |
| <i>magnipalpis</i> (Williston), 1896 (Phyllomyza), Neophyllomyza ..... | 75.3 |
| <i>magnipalpus</i> Melander, 1913, Neophyllomyza (error) .....         | 75.3 |
| <i>Mallochiella</i> Melander, 1913 .....                               | 75.3 |
| <i>Meoneura</i> Rondani, 1856 .....                                    | 75.1 |
| <i>Microsimus</i> Aldrich, 1926 .....                                  | 75.3 |
| <i>Milichia</i> Meigen, 1830 .....                                     | 75.4 |
| <i>Milichiella</i> Giglio-Tos, 1895 .....                              | 75.4 |
| <i>Milichiinae</i> .....   | 75.4 |
| <i>m-nigrum</i> (Zetterstedt), 1848 (Agromyza), Desmometopa .....      | 75.2 |
| <i>montanum</i> Becker, 1907, Eccoptomma .....                         | 75.4 |
| <i>myopa</i> Melander, 1913, Pholeomyia .....                          | 75.6 |
| <i>myrmicola</i> Sabrosky, 1953, Costalima .....                       | 75.2 |
| <i>Neomeoneurites</i> Hennig, 1972 .....                               | 75.2 |
| <i>Neophyllomyza</i> Melander, 1913 .....                              | 75.3 |
| <i>nigra</i> Williston, 1897, Paramyia .....                           | 75.3 |
| <i>nigra</i> (Williston), 1896 (Platophrymyia), Desmometopa .....      | 75.2 |
| <i>nigricosta</i> (Hendel), 1932 (Macromilichia), Pseudomilichia ..... | 75.6 |
| <i>nitens</i> (Loew), 1869 (Phyllomyza), Paramyia .....                | 75.3 |
| <i>nitida</i> (Walker), 1836 (Gymnopa), Milichiella .....              | 75.5 |
| <i>nudiventris</i> Becker, 1907, Milichiella .....                     | 75.5 |
| <i>Ophthalmomyia</i> Williston, 1896 .....                             | 75.4 |
| <i>palpalis</i> Meijere, 1914, Desmometopa .....                       | 75.2 |
| <i>palparis</i> (Becker), 1907 (Rhynchomilichia), Pholeomyia .....     | 75.6 |
| <i>Paramadiza</i> Malloch, 1913 .....                                  | 75.2 |
| <i>Paramilichia</i> Malloch, 1913 .....                                | 75.5 |
| <i>Paramyia</i> Williston, 1897 .....                                  | 75.3 |





|   |          |
|---|----------|
| pectoralis Hendel, 1932, Pholeomyia .....                       | 75.6     |
| Pholeomyia Bilimek, 1867 .....                                  | 75.5     |
| Phyllomyza Fallén, 1810 .....                                   | 75.3     |
| Platophrymyia Williston, 1896 .....                             | 75.2     |
| Platophrymia Aldrich, 1905 (error) .....                        | 75.2     |
| poecilogastra Becker, 1907, Ulia .....                          | 75.7     |
| polita Sabrosky, 1959, Meoneura .....                           | 75.1     |
| politifacies Sabrosky, 1959, Pholeomyia .....                   | 75.6     |
| praecellaris Hendel, 1932, Pholeomyia .....                     | 75.6     |
| praesecta (Becker), 1907 (Rhynchomilichia), Pholeomyia .....    | 75.6     |
| prominens (Becker), 1907 (Rhynchomilichia), Pholeomyia .....    | 75.6     |
| Pseudomilichia Becker, 1907 .....                               | 75.6     |
| <br>quadrifasciata Hendel, 1932, Pholeomyia .....               | <br>75.6 |
| <br><i>Rhynchomilichia</i> Hendel, 1903 .....                   | <br>75.5 |
| rufula (Frey), 1919 (Siphonomyiella), Stomosis .....            | 75.4     |
| <br>schineri (Hendel), 1932 (Rhynchomilichia), Pholeomyia ..... | <br>75.6 |
| schnusei Becker, 1907, Pseudomilichia .....                     | 75.6     |
| singaporensis Kertész, 1899, Desmometopa .....                  | 75.2     |
| <i>Siphonomyiella</i> Frey, 1919 .....                          | 75.3     |
| sororcula (Becker), 1907 (Rhynchomilichia), Pholeomyia .....    | 75.6     |
| sp., Meoneura .....   | 75.1     |
| sp., Phyllomyza .....   | 75.3     |
| Stomosis Melander, 1913 .....                                   | 75.3     |
| <br>tarsalis Loew, 1866, Desmometopa .....                      | <br>75.2 |
| tricincta Becker, 1907, Milichiella .....                       | 75.5     |
| <br>Ulia Becker, 1907 .....                                     | <br>75.7 |
| <br>velutina Becker, 1907, Milichiella .....                    | <br>75.5 |
| vidua Becker, 1907, Milichiella .....                           | 75.5     |

MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

## A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH OF THE UNITED STATES

76

## FAMILY CANACEIDAE

WILLIS W. WIRTH

*Systematic Entomology Laboratory, Agricultural Research Service, USDA  
c/o U. S. National Museum, Washington, D.C. 20560*

The "beach flies" are closely similar in appearance and habits to the Ephydriidae, although their true relationship is closer to the Miliichiidae and Sphaeroceridae. In habit, canaceids are almost all intertidal. The larvae feed on algae on wave-splashed rocks or sandy beaches.

Refs. — Williams, 1938 : 85 (biology, figs.); Wirth, 1951 : 245 (world revision, keys).

## Genus CANACE Haliday

*Ephydra*, subg. CANACE Haliday, 1939:411. Type-species, *nasica* Haliday (mon.).

BLANTONI Wirth, 1956:162, fig. 1 (male genitalia). Type-locality: Panama, Darien Prov., Jaqué. Distr. — Panama.

CAVAGNARO Wirth, 1969b:579, figs. 10, 11 (male genitalia, spermatheca). Type-locality: Galápagos Islands, Isla Santa Cruz, Academy Bay. Distr. — Galápagos Islands.

CURRANI Wirth, 1970:402, fig. 1 (male genitalia). Type-locality: Panama, Darien Prov., Jaqué. Distr. — Panama, Ecuador.

MARITIMA Wirth, 1951:263, fig. 4e-f (male, female genitalia). Type-locality: Galápagos Islands, Bartholomew Island. Distr. — Galápagos Islands.

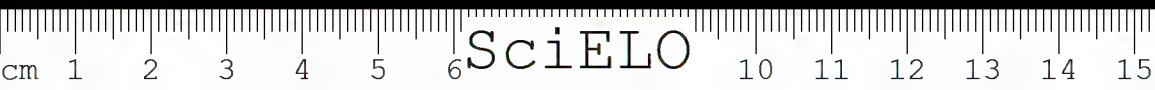
OLIVEIRAI Wirth, 1956:164, fig. 2 (male genitalia). Type-locality: Brazil, Rio de Janeiro, Ilha Guaiaba, Baía de Sepetiba. Distr. — Brazil.

SNODGRASSI Coquillett, 1901:378. Type-locality: Galápagos Islands, Albermale Island. Distr. — Panama, Galápagos Islands.

## Genus CANACEOIDES Cresson

CANACEOIDES Cresson, 1934:221. Type-species, *Canace nudata* Cresson (orig. des.).

76.1



*Procanace* Curran, 1934b:160 (precocc. Hendel, 1913). Type-species, *panamensis* Curran (orig. des.).

*Neocanace* Curran, 1934a:357 (nom. nov. for *Procanace* Curran). Type-species, *Procanace panamensis* Curran (aut.).

Ref. — Wirth, 1969a:551 (revision, key).

**ANGULATUS** Wirth, 1969a:556, figs. 1, 10, 19, 24 (male, female genitalia). Type-locality: Hawaii, Oahu, Waimea. Distr. — Hawaiian Islands, Baja California, Gulf of California Islands; Peru, Galápagos Islands.

**BALBOAI** Wirth, 1969a:559, figs. 3, 12, 21, 26 (male, female genitalia). Type-locality: Panama, Darien Prov., Jaqué. Distr. — Panama.

**NUDATUS** (Cresson), 1926:257 (*Canace*). Type-locality: U.S.A., California, Los Angeles Co. Distr. — U.S.A. (Washington to California), Mexico (Baja California). Ref. — Wirth, 1969a:562, figs. 4, 13, 27, 33 (male, female genitalia) (redescribed, distribution).

**PANAMENSIS** (Curran), 1934b:161 (*Procanace*). Type-locality: Panama, Canal Zone, Patilla Point. Distr. — Panama. Ref. — Wirth, 1969a:563, figs. 5, 14, 22, 28 (male, female genitalia) (redescribed, distribution).

**SCUTELLATUS** Wirth, 1969a:563, figs. 6, 15, 29 (male, female genitalia). Type-locality: Mexico, Isla Ildefonsa. Distr. — Mexico (Gulf of California).

**SETOSUS** Wirth, 1969a:565, figs. 7, 16, 30 (male, female genitalia). Type-locality: Mexico, Isla Santa Catalina. Distr. — Mexico (Gulf of California).

**SPINOSUS** Wirth, 1969a:567, figs. 8, 17, 31 (male, female genitalia). Type-locality: Mexico, Baja California, Cabo San Lucas. Distr. — Mexico (Baja California).

#### Genus NOCTICANACE Malloch

*NOCTICANACE* Malloch, 1934:4. Type-species, *peculiaris* Malloch (orig. des.).

Ref. — Wirth, 1951:269 (revision, key).

**ASHLOCKI** Wirth, 1969b:589, figs. 43-47, 49 (wing, male and female genitalia). Type-locality: Galápagos Islands, Isla Santa Cruz, Academy Bay. Distr. — Galápagos Islands.

**CANCER** Wirth, 1969b:586, figs. 33-34 (male genitalia). Type-locality: Galápagos Islands, Isla Pinta. Distr. — Galápagos Islands.

**CHILENSIS** (Cresson), 1931:116 (*Canace*). Type-locality: Chile, Ancud. Distr. — Chile, Panama.

**CURIOI** Wirth, 1969b:583, figs. 14, 15, 18-23 (legs, male and female genitalia). Type-locality: Galápagos Islands, Isla Wolf. Distr. — Galápagos Islands.

- DARWINI Wirth, 1969b:585, figs. 24-29 (leg, male and female genitalia). Type-locality: Galápagos Islands, Isla Genovesa. Distr. — Galápagos Islands.
- GALAPAGENSIS (Curran), 1934b:160 (*Procanace*). Type-locality: Galápagos Islands, Albemarle Island, Tagus Cove. Distr. — Galápagos Islands. Refs. — Curio, 1964:794 (habits; resting on crabs); Wirth, 1969b:581, figs. 12-13, 17 (male, female genitalia) (re-described, distr.).
- SCAPANIUS Wirth, 1969b:586, figs. 30-32 (male genitalia, spermatheca). Type-locality: Galápagos Islands, Isla Fernandina, Punta Espinosa. Distr. — Galápagos Islands.
- SPINICOSTA Wirth, 1969b:589, figs. 38, 40-42 (wing, male and female genitalia). Type-locality: Galápagos Islands, Isla Fernandina, Punta Espinosa. Distr. — Galápagos Islands.
- TEXENSIS (Wheeler), 1952:92 (*Canaceoides*). Type-locality: U.S.A., Texas, Galveston. Distr. — U.S.A. (Texas, Florida), Puerto Rico.
- USINGERI Wirth, 1969b:587, figs. 35-37, 39 (male, female genitalia). Type-locality: Galápagos Islands, Isla Fernandina, Punta Espinosa. Distr. — Galápagos Islands.

#### LITERATURE CITED

COQUILLETT, D. W.

1901. Papers from the Hopkins Stanford Galapagos Expedition, 1898-1899. II. Entomological results (2) : Diptera. *Proc. Wash. Acad. Sci.* 3:371-379.

CRESSON, E. T., Jr.

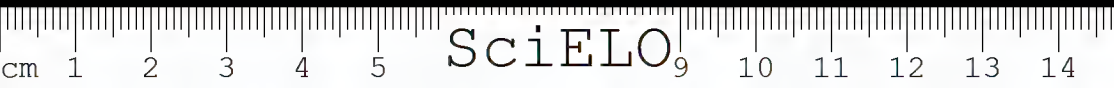
1926. Descriptions of new genera and species of Diptera (Ephydriidae and Micropezidae). *Trans. Amer. Ent. Soc.* 52:249-274.
1931. Ephydriidae. *Diptera of Patagonia and South Chile* 6(2):85-116. London.
1934. Descriptions of new genera and species of the dipterous family Ephydriidae. XI. *Trans. Amer. Ent. Soc.* 60:199-222, 1 pl.

CURIO, E.

1964. Ueber das Nachtigen von *Nocticanace galapagensis* Curran (Diptera, Canaceidae). *Ztschr. f. Tierpsychol.* 21:794-797.

CURRAN, C. H.

- 1934a. *The families and genera of North American Diptera*, 512 pp., 235 figs., 2 pls. New York.
- 1934b. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 13. Diptera. *Proc. Calif. Acad. Sci.* (4)21:147-172, 4 figs.

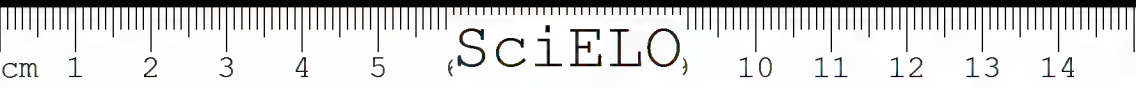




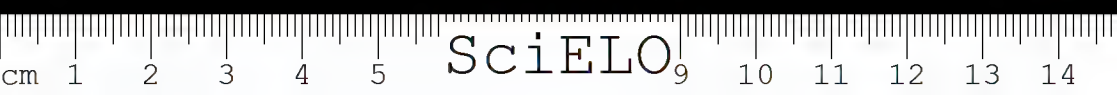
- HALIDAY, A. H.  
1839. Remarks on the generic distribution of the British Hydromyzidae (Diptera). *Ann. Nat. Hist.* 3:217-224, 401-411.
- MALLOCH, J. R.  
1933. Some acalyptrate Diptera from the Marquesas Islands. *Bull. Bernice P. Bishop Mus.* 114:1-31, 9 figs.
- WHEELER, M. R.  
1952. The dipterous family Canaceidae in the United States. *Ent. News* 63:89-94.
- WILLIAMS, F. X.  
1938. Biological studies in Hawaiian water-loving insects. Part III. Diptera or flies. A, Ephydriidae and Anthomyiidae. *Proc. Hawaiian Ent. Soc.* 10:85-119, 1 fig., 9 pls.
- WIRTH, W. W.  
1951. A revision of the dipterous family Canaceidae. *Occas. Papers Bernice P. Bishop Mus.* 20:245-275, 6 figs.
1954. A new intertidal fly from California, with notes on the genus *Nocticanace* Malloch (Diptera: Canaceidae). *Pan-Pacific Ent.* 30:59-62, 1 fig.
1956. Two new Neotropical species of surf flies of the genus *Canace* (Diptera, Canaceidae). *Rev. Brasil. Ent.* 5:161-166, 2 figs.
- 1969a. The shore flies of the genus *Canaceoides* Cresson (Diptera: Canaceidae). *Proc. Calif. Acad. Sci.* (4)36:551-570, 35 figs.
- 1969b. New species and records of Galapagos Diptera. *Proc. Calif. Acad. Sci.* (4)36:571-594, 49 figs.
1970. The American beach flies of the *Canace snodgrassi* group (Diptera: Canaceidae). *Proc. Ent. Soc. Wash.* 72:297-403, 4 figs.

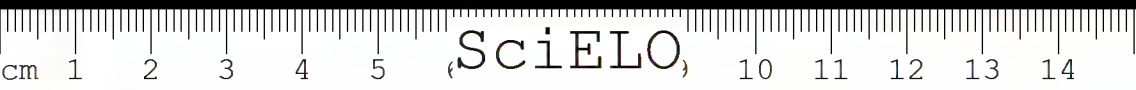
# INDEX

|   |      |
|---|------|
| angulatus Wirth, 1969, <i>Canaceoides</i> .....                       | 76.2 |
| ashlocki Wirth, 1969, <i>Nocticanace</i> .....                        | 76.2 |
| balboai Wirth, 1969, <i>Canaceoides</i> .....                         | 76.2 |
| blantoni Wirth, 1956, <i>Canace</i> .....                             | 76.1 |
| <i>Canace</i> Haliday, 1839 .....                                     | 76.1 |
| <i>Canaceoides</i> Cresson, 1934 .....                                | 76.1 |
| cancer Wirth, 1969, <i>Nocticanace</i> .....                          | 76.2 |
| cavagnaroi Wirth, 1969, <i>Canace</i> .....                           | 76.1 |
| chilensis (Cresson), 1931 ( <i>Canace</i> ), <i>Nocticanace</i> ..... | 76.2 |
| curioi Wirth, 1969, <i>Nocticanace</i> .....                          | 76.2 |
| currani Wirth, 1970, <i>Canace</i> .....                              | 76.1 |
| darwini Wirth, 1969, <i>Nocticanace</i> .....                         | 76.3 |



|  |      |
|--|------|
| galapagensis (Curran), 1934 (Procanace), Nocticanace ..... | 76.3 |
| maritima Wirth, 1951, Canace .....                         | 76.1 |
| <i>Neocanace</i> Curran, 1934 .....                        | 76.2 |
| Nocticanace Malloch, 1933 .....                            | 76.2 |
| nudatus (Cresson), 1926 (Canace), Canaceoides .....        | 76.2 |
| oliveirai Wirth, 1956, Canace .....                        | 76.1 |
| panamensis (Curran), 1934 (Procanace), Canaceoides .....   | 76.2 |
| <i>Procanace</i> Curran, 1934 .....                        | 76.2 |
| scapanius Wirth, 1969, Nocticanace .....                   | 76.3 |
| scutellatus Wirth, 1969, Canaceoides .....                 | 76.2 |
| setosus Wirth, 1969, Canaceoides .....                     | 76.2 |
| snodgrassi Coquillett, 1901, Canace .....                  | 76.1 |
| spinicosta Wirth, 1969, Nocticanace .....                  | 76.3 |
| spinosus Wirth, 1969, Canaceoides .....                    | 76.2 |
| texensis (Wheeler), 1952 (Canaceoides), Nocticanace .....  | 76.3 |
| usingeri Wirth, 1969, Nocticanace .....                    | 76.3 |





SciELO

Este trabalho foi composto e impresso  
nas oficinas gráficas da

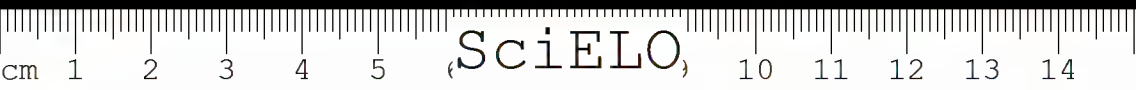


**TIPOGRAFIA EDANEE S.A.**

à Rua do Bosque n.º 1.426 - São Paulo

CEP. 01136





SciELO

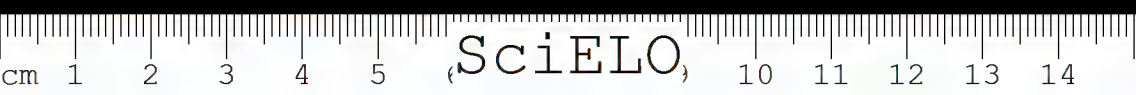
SUPERFAMILY DROSOPHILOIDEA

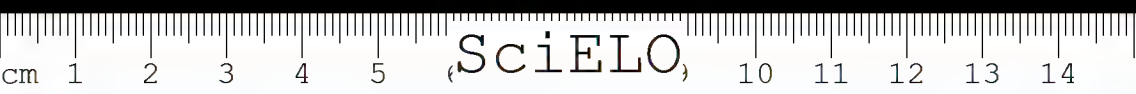
Family Ephydridae

Family Curtonotidae

Family Drosophilidae

Family Diastatidae





SciELO

DEPARTAMENTO DE ZOOLOGIA, SECRETARIA DA AGRICULTURA, SÃO PAULO

A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

77

## FAMILY EPHYDRIDAE

WILLIS W. WIRTH

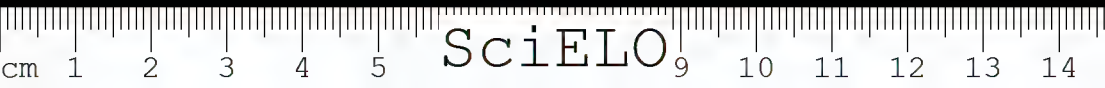
*Systematic Entomology Laboratory, Entomology Research Division,  
Agr. Res. Serv., USDA<sup>1</sup>*

The Ephydriidae, or "shore flies", are mainly beneficial, providing important food for wildlife, especially waterfowl inhabiting the marshes where these flies so commonly breed (Martin & Uhler, 1939; Rooth, 1965). The larvae are aquatic or semiaquatic and the adults are usually found close by on the surface of the mud or water, or on low, emergent vegetation. The "brine flies" of the genus *Ephydra* or its relatives become so abundant in the salt and alkaline lakes of western North America that in times past the Indians often took advantage of their numbers to gather puparia from the windrows where they were stranded on the beaches and prepare them for use as food (Aldrich, 1912; Essig, 1926). In a few areas the leaf or stem mines of *Hydrellia* may become extensive enough to damage crops of watercress, or rice, barley, and other irrigated cereals (Grigarick, 1959).

From the aquatic and semiaquatic habitats typical in this family various genera have evolved remarkably divergent habits with corresponding structural and biological modifications of the larvae (Hennig, 1943, 1952). Leaf miners have developed in the Psilopinae (*Psilopa* and *Clanoneurum* in beets and other Chenopodiaceae) and in the Notiphilinae (*Hydrellia* in a wide variety of aquatic and semiaquatic plants, *Lemnophila* in Lemnaceae). The larvae of *Discomyza* are scavengers in shells of dead snails, and *Hecamede* and *Allotrichoma* in carrion and feces. The larvae of the petroleum fly, *Helaeomyia petrolei* (Coquillett) have been found in pools of crude petroleum. *Trimerina madizans* (Fallén) has been reared from eggs of spiders, and *Gastrops* from egg clusters of frogs.

The greatest evolutionary specialization in the family, however, has been in the adaptation to great extremes of salt concentration in aquatic habitats. Although many ephydrid genera are common and characteristic of the muddy margins of freshwater streams, ponds, and marshes, they do not compare in abundance and importance in the biota with those genera which are found in maritime marshes and tidal salt pools, or in the salt and alkaline lakes and ponds characteristic of arid regions.

<sup>1</sup> Mail address: c/o U.S. National Museum, Washington, D.C. 20560.





As environmental extremes force out less salt-tolerant animals, ephydriids may take over with less competition until their numbers may reach fantastic proportions. The relative isolation and lack of competition in such habitats has resulted in remarkable evolution of very distinctive specialized genera and species. It is expected that more intensive study of the numerous Neotropical "salinas" will yield much of interest in their shore fly inhabitants.

The basic classification of the Ephydriidae first laid down by Loew (1860) and followed by Becker (1896, 1926) divided the Ephydriidae into three subfamilies, Ephydrinae, Notiphilinae, and Hydrelliinae. Cresson gradually evolved a classification differing somewhat from theirs, and recognizing the four subfamilies adopted here. In 1942 Cresson issued the first of his "Synopsis", in which he presented by subfamily for each major zoogeographic region, keys for the identification of tribes, genera, and species, and complete, up to date information on synonymy, distribution, and status of all species known to him. Soon after the completion of the subfamilies Psilopinae and Notiphilinae, his task was unfortunately interrupted by death in 1948, leaving unfinished the Parydrinae and Ephydrinae. Sturtevant & Wheeler (1954) presented an excellent revision of the North American Parydrinae and Ephydrinae and a few other genera to supplement Cresson's synopses, and their work now forms the guideline for my treatment of these respective groups. In my opinion, however, their reduction of many of Cresson's genera to subgeneric rank is probably too conservative, and I have usually followed Cresson's treatment.

Except for incidental descriptions of species, our knowledge of the Neotropical Ephydriidae began with studies by Williston (1896, 1897) on the species of St. Vincent and Brazil, respectively. Beginning with the study of a large Costa Rican collection made by P. P. Calvert, Cresson published a total of 30 papers on the Neotropical fauna during the three decades he specialized in this family. During the 1930's Hendel contributed important papers on the Neotropical ephydriids. More recently Oliveira (1954-1958) intensively studied *Dimecoenia* and Wirth (1955-1957) reviewed the ephydriids of the Bahamas and the Juan Fernandez Islands. Still, our knowledge of the Neotropical shore flies is in its infancy, for an estimated 150 new species are already found in the U. S. National Museum collections awaiting revisionary study and description.

#### Subfamily PSILOPINAE

Ref. — Cresson, 1946:131 (synopsis).

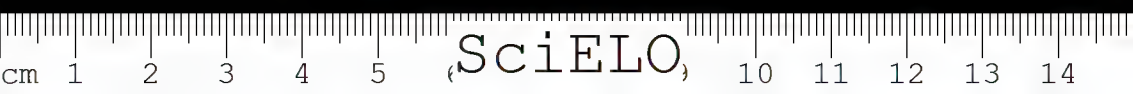
#### Tribe GYMNOPINI

Ref. — Cresson, 1922a:325 (revision, keys).

#### Genus MOSILLUS Latreille

MOSILLUS Latreille, 1804:196. Type-species, *arcuatus* Latreille (sub. mon., Latreille, 1805:390) = *subsultans* (Fabricius).

*Gymnopa* Fallén, 1820:10. Type-species, *aenea* Fallén (mon.) = *subsultans* (Fabricius).



**TIBIALIS** Cresson, 1916b:149. Type-locality: U.S.A., New Jersey, Wildwood. Distr. — Mexico, Guatemala, West Indies (Bahamas, Barbuda), Bermuda; North America (British Columbia to Quebec, south to California and Florida).

### Genus *ATHYROGLOSSA* Loew

**ATHYROGLOSSA** Loew, 1860:12. Type-species, *Notiphila glabra* Meigen (mon.).

*Ochtheroidea* Williston, 1896:401. Type-species, *atra* Williston (mon.).

*Parathyroglossa* Hendel, 1931:68. Type-species, *Athyroglossa ordinata* Becker (orig. des.).  
Ref. — Sturtevant & Wheeler, 1954:343 (key).

**BARROSI** Brèthes, 1919:44. Type-locality: Chile, Santiago, Río Blanco. Distr. — Chile.

**FASCIPENNIS** (Cresson), 1918:60 (*Ochtheroidea*). Type-locality: Colombia, Aracataca. Distr. — Panama, Colombia, Venezuela, Ecuador, Brazil. Ref. — Cresson, 1922a:326, pl. 20, fig. 10 (wing).

**GLAPHYROPUS** Loew, 1878:197. Type-locality: U.S.A., Texas. Distr. — Entire Central and South America and West Indies, U.S.A. (Illinois to Virginia, south to Texas and Florida). Ref. — Cresson, 1922a:340, pl. 20, figs. 3, 8, 11, 12 (head, wing, fore femur).  
*atra* Williston, 1896:401, pl. 13, fig. 146 (wing, leg) (*Ochtheroidea*). Type-locality: "St. Vincent". N. SYN.

*dubia* Williston, 1896:392, pl. 13, fig. 138 (wing, head) (*Discomyza*). Type-locality: "St. Vincent". N. SYN.

**LAEVIS** (Cresson), 1918:61 (*Ochtheroidea*). Type-locality: Costa Rica, Alajuela. Distr. — Cuba, and Mexico, throughout West Indies, Central and South America to Brazil and Bolivia.  
*granulosa* Cresson of Cresson, 1922a:341; 1946:132.

**NITIDA** Williston, 1896:397, pl. 13, fig. 132 (head). Type-locality: "St. Vincent". Distr. — Mexico, Costa Rica, Panama, Venezuela, Colombia, Ecuador, Bolivia, Guyana, West Indies (Cuba, Puerto Rico, Dominica).

*centralis* Cresson, 1918:60, pl. 3, figs. 13, 14 (head, leg) (*Ochtheroidea*). Type-locality: Costa Rica, Turrucare. N. SYN.

**SIMILIS** (Cresson), 1918:61 (*Ochtheroidea*). Type-locality: Costa Rica, Cachi, Río Reventazón. Distr. — Costa Rica, Panama, Ecuador, Colombia, Bolivia, West Indies (Virgin Islands, Dominica). Ref. — Cresson, 1922a:338, pl. 20, fig. 7 (fore femur).

**SULCATA** (Hendel), 1930b:139 (*Ochtheroidea*). Type-locality: Bolivia, San José, Chiquitos. Distr. — Bolivia.

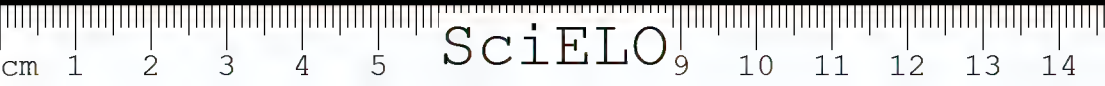
**TECTORA** Cresson, 1926:249. Type-locality: "Peru". Distr. — Peru, Ecuador.

### Genus *CEROMETOPUM* Cresson

**CEROMETOPUM** Cresson, 1914:241. Type-species, *mosilloides* Cresson (orig. des.).

*Cerometopon* Cresson, 1922a:342, error.

**LACUNOSUM** Cresson, 1925:165. Type-locality: Costa Rica, Higuito, San Mateo. Distr. — Costa Rica, Panama.



MOSILLOIDES Cresson, 1914:242, pl. 10, fig. 3 (head). Type-locality: Colombia, Baranquilla. Distr. — Colombia, Paraguay, Argentina.

### Tribe ATISSINI

#### Genus ATISSA Haliday

ATISSA Haliday in Curtis, 1837:281. Type-species, *Ephydra pygmaea* Haliday (mon.).

*Parephydra* Coquillett, 1902:183. Type-species, *humilis* Coquillett (orig. des.) = *pygmaea* (Haliday).

LUTEIPES Cresson, 1944:2. Type-locality: Honduras, Puerto Castillo. Distr. — Honduras.

MIMULA Cresson, 1931a:92. Type-locality: Argentina, Viedma. Distr. — Argentina.

PYGMAEA (Haliday), 1833:174 (*Ephydra*). Type-locality: "Ireland". Distr. — El Salvador, Panama, Bahamas, Dominica, Argentina; Europe, North America.

#### Genus PTILOMYIA Coquillett

PTILOMYIA Coquillett, 1900b:261. Type-species, *enigma* Coquillett (orig. des.) = *parva* (Williston).

*Atissiella* Cresson, 1918:55. Type-species, *setulosa* Cresson (orig. des.).

*Alocatissa* Hendel, 1930b:134. Type-species, *lindneri* Hendel (orig. des.). Ref. — Sturtevant & Wheeler, 1954:253 (rev., key).

LINDNERI (Hendel), 1930b:135 (*Alocatissa*). Type-locality: Argentina, Lapango, Pilcomayo. Distr. — Panama, Ecuador, Bolivia, Argentina.

LOBIOCHAETA Sturtevant & Wheeler, 1954:254. Type-locality: Texas, Palmetto State Park, Ottine. Distr. — El Salvador, U.S.A. (California, Arizona, Texas).

MABELAE (Cresson), 1926:253 (*Atissiella*). Type-locality: U.S.A., Pennsylvania, Swarthmore. Distr. — Mexico, Panama, Ecuador, U.S.A. (Texas to Pennsylvania and Florida).

PARVA (Williston), 1896:399, pl. 13, fig. 143 (wing) (*Hydrellia*). Type-locality: "St. Vincent". Distr. — El Salvador, Costa Rica, Panama, Ecuador, West Indies (Bahamas, Puerto Rico, Grenada, Dominica, St. Vincent), Trinidad, U.S.A. (California to Louisiana and Florida). N. COMB.

*enigma* Coquillett, 1900b:262. Type-locality: Puerto Rico, Bayamon. N. SYN.

FLEURISSETA (Cresson), 1942:111 (*Atissiella*). Type-locality: New Mexico, Las Cruces. Distr. — Mexico, El Salvador, U.S.A. (California to Texas).

SETULOSA (Cresson), 1918:55, pl. 3, fig. 9 (head) (*Atissiella*). Type-locality: Costa Rica, Cartago. Distr. — Costa Rica. Ref. — Cresson, 1946:139 (redescribed).

### Genus NANNODASTIA Hendel

- NANNODASTIA Hendel, 1930a:68. Type-species, *horni* Hendel (orig. des.).  
Ref. — Sabrosky & Wirth, 1958:109 (discussion).  
HORNII Hendel, 1930a:70, figs. (wing, head). Type-locality: Taiwan,  
Anping. Distr. — West Indies (Dominica); Taiwan, Hawaii.

### Genus PSEUDOHECAMEDE Hendel

- PSEUDOHECAMEDE Hendel, 1936:104. Type-species, *nasalis* Hendel (orig. des.) = *salubris* (Cresson).  
ABDOMINALIS (Williston), 1896:398 (*Hecamede*). Type-locality: "St. Vincent". Distr. — Mexico, Honduras, Costa Rica, Panama, West Indies (Bahamas, Puerto Rico, Dominica, St. Vincent), Venezuela, Brazil, Peru, Bolivia, Paraguay, Argentina.  
*longirostre* Hendel, 1930b:135 (*Allotrichoma*). Type-locality: Bolivia, Fortín Esteros. N. SYN.  
FACIALIS Hendel, 1936:105. Type-locality Brazil, Pará, Santarém. Distr. — West Indies (Bahamas), Ecuador, Brazil.  
SALUBRIS (Cresson), 1930b:78 (*Allotrichoma*). Type-locality: "Brazil". Distr. — Brazil, Paraguay, Argentina.  
*nasalis* Hendel, 1936:104. Type-locality: Paraguay, Chaco.

### Genus HECAMEDE Haliday

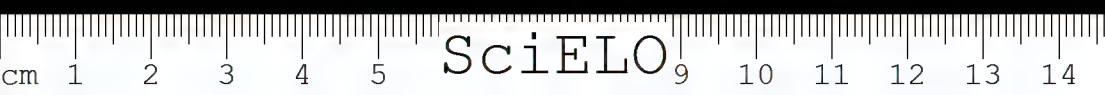
- Notiphila*, subg. HECAMEDE Haliday in Curtis, 1837:281. Type-species, *Notiphila albicans* Meigen (mon.).  
BRASILIENSIS Cresson, 1938:24. Type-locality: Brazil, Guanabara, Rio de Janeiro, Praia da Gávea. Distr. — Brazil.

### Genus ALLOTRICHOMA Becker

- ALLOTRICHOMA Becker, 1896:121. Type-species, *Hecamede lateralis* Loew (orig. des.).  
YOSEMITE Cresson, 1926:252. Type-locality: U.S.A., California, Yosemite Valley. Distr. — Mexico (Baja California); U.S.A. (British Columbia to Montana, south to California and Arizona).

### Genus DIPHUIA Cresson

- DIPHUIA Cresson, 1944:3. Type-species, *anomala* Cresson (orig. des.).  
Ref. — Wirth, 1956:3 (taxonomy).  
ANOMALA Cresson, 1944:4. Type-locality: Panama, Monte Lirio, Canal Zone. Distr. — Panama, Colombia, Ecuador, West Indies (Dominica).  
NASALIS Wirth, 1956:3. Type-locality: Bahamas, Long Island, Deadman's Cay. Distr. — West Indies (Bahamas).





## Genus GLENANTHE Haliday

*Hydrellia*, subg. GLENANTHE Haliday, 1839:404. Type-species, *Hydrellia ripicola* Haliday (mon.).

LITOREA Cresson, 1925:166. Type-locality: U.S.A., New Jersey, Wildwood. Distr. — El Salvador, Panama, West Indies (Bahamas, Dominica, Trinidad); North America (coastal, Alaska to California, New Brunswick to Florida).

## Genus PARAGLENANTHE Wirth

PARAGLENANTHE Wirth, 1956:6. Type-species, *bicolor* Wirth (orig. des.).

BAHAMENSIS Wirth, 1956:8. Type-locality: Bahamas, South Bimini Island. Distr. — West Indies (Bahamas).

BICOLOR Wirth, 1956:7. Type-locality: Bahamas, Turks and Caicos Islands, West Caicos Island. Distr. — West Indies (Bahamas).

PLEURALIS Wirth, 1956:7. Type-locality: Bahamas, San Salvador Island, near Cockburn Town. Distr. — West Indies (Bahamas).

## Genus PELIGNELLUS Sturtevant & Wheeler

PELIGNELLUS Sturtevant & Wheeler, 1954:252. Type-species, *subnudus* Sturtevant & Wheeler (orig. des.).

SUBNUDUS Sturtevant & Wheeler, 1954:252. Type-locality: U.S.A., California, Orange County, Corona del Mar. Distr. — Panama; U.S.A. (California).

## Tribe DISCOCERININI

### Genus DISCOCERINA Macquart

DISCOCERINA Macquart, 1835:527, pl. 21, fig. 11 (habitus). Type-species, *Notiphila pusilla* Meigen (Coquillett, 1910:534) = *obscura* (Fallén). Coquillett's synonymy of *obscura* with *pusilla* is only implied, i.e. Macquart's first species.

*Psilopa*, sectio *Clasiopa* Stenhammar, 1844:159. Type-species, *Notiphila obscura* Fallén (orig. des.).

### Subgenus DISCOCERINA Macquart

FLAVIFRONS Hendel 1930b:137. Type-locality: Bolivia, Camatindi. Distr. — Brazil, Bolivia.

FLAVIPES Cresson, 1941b:35. Type-locality: U.S.A., California, Bakersfield. Distr. — Mexico, Guatemala, Costa Rica, Panama, Venezuela, Ecuador, Peru, Colombia, Brazil, Paraguay, Argentina, West Indies (Puerto Rico, St. Thomas, Dominica), U.S.A. (California, Arizona).

NEPOS Cresson, 1918:57. Type-locality: Costa Rica, Cartago, Irazú. Distr. — Costa Rica.

OBSKURELLA (Fallén), 1813:251 (*Notiphila*). Type-locality: "Sweden".  
Distr. — Europe, entire North, Central and South America, West  
Indies.

*parva* Loew of Cresson, 1918:58.

*nitidiventris* Hendel, 1930b:136. Type-locality: Argentina (San José);  
Bolivia (San José de Chiquitos and Fortín Esteros); Paraguay  
(Trinidad near Asunción).

SANA Cresson, 1931a:90. Type-locality: Chile, Ensenada. Distr. — Ecu-  
ador, Peru, Chile.

TRILINEATA Cresson, 1918:57. Type-locality: Costa Rica, Juan Viñas. Distr.  
— Costa Rica. Ref. — Cresson, 1946:145 (redescribed).

### Subgenus BASILA Cresson

BASILA Cresson, 1942:116 (as genus). Type-species, *Ditrichophora nadi-  
neae* Cresson (orig. des.).

BALSAMAE (Cresson), 1930b:77 (*Ditrichophora*). Type-locality: Honduras,  
Puerto Castilla. Distr. — Honduras.

EISETULOSA (Cresson), 1939:7 (*Ditrichophora*). Type-locality: Paraguay,  
San Bernardino. Distr. — Paraguay, Uruguay, Argentina.

FUMIPENNIS Wirth, 1955:53. Type-locality: Juan Fernandez Islands, Ma-  
satierra, Plazoleta del Yunque. Distr. — Juan Fernandez Islands.

NANA Williston, 1896:396. Type-locality: "St. Vincent". Distr. — Costa  
Rica, Colombia, West Indies (Dominican Republic, Puerto Rico,  
Dominica, St. Vincent).

PAINTERI (Cresson), 1930b:76 (*Ditrichophora*). Type-locality: Honduras,  
Puerto Castilla. Distr. — Honduras, Venezuela, Brazil.

POLITA (Edwards), 1933:117 (*Ditrichophora*). Type-locality: Argentina,  
Lake Gutiérrez. Distr. — Argentina, Chile.

PUELLA (Cresson), 1931a:91 (*Ditrichophora*). Type-locality: Chile, Casa  
Pangue. Distr. — Chile, Argentina.

### Subgenus LAMPROCLASIOPA Hendel

*Discocerina*, subg. LAMPROCLASIOPA Hendel 1933a:79. Type-species, *facialis*  
Hendel (orig. des.).

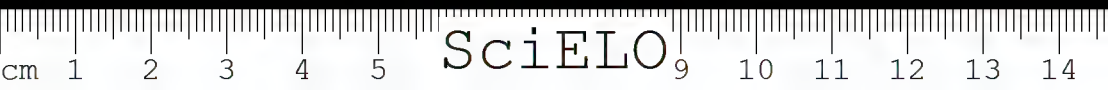
ARACATACA Cresson, 1940:5. Type-locality: Colombia, Aracataca. Distr. —  
Colombia, Chile.

CHALYBEA Hendel, 1930b:138. Type-locality: Argentina, Lapango, Pilco-  
mayo. Distr. — Mexico, Colombia, Ecuador, Bolivia, Paraguay,  
Argentina.

HENDELI Wirth, nom. nov. for *facialis* Hendel. Type-locality: Bolivia,  
Cillunticara. Distr. — Bolivia.

*facialis* Hendel, 1933a:79 (*Lamproclasiopa*; preocc. in *Discocerina* by  
Williston, 1896). Type-locality: Bolivia, Cillunticara.

NITIDA Cresson, 1918:57, pl. 3, fig. 8 (head). Type-locality: Costa Rica,  
Guapiles. Distr. — Mexico, El Salvador, Costa Rica, Panama,  
Colombia, Ecuador, Venezuela, Peru, Brazil, Argentina.



- OBSCURA Williston, 1896:397. Type-locality: "St. Vincent". Distr. — Panama, Brazil, West Indies (Cuba, Puerto Rico, Dominica, St. Vincent), U.S.A. (New York to Florida, Texas, Louisiana, Georgia).
- UNIVITTATA Cresson, 1946:147. Type-locality: Peru, Iquitos. Distr. — Costa Rica, Panama, Ecuador, Peru, Brazil.

### Genus GUTTIPTILOPA Wirth

- GUTTIPTILOPA Wirth, 1956:9. Type-species, *haydeni* Wirth (orig. des.).
- HAYDENI Wirth, 1956:11, fig. 1 (wing). Type-locality: Bahamas, Andros Island, Fresh Creek. Distr. — West Indies (Bahamas).

### Genus HYDROCHASMA Hendel

- HYDROCHASMA Hendel, 1936:101. Type-species, *zernyi* Hendel (mon.) = *faciale* (Williston).
- CERACEPS (Cresson), 1938:27 (*Hecamedoides*). Type-locality: "Brazil". Distr. — Brazil, Uruguay.
- FACIALE (Williston), 1896:396, pl. 13, fig. 141 (head) (*Discocerina*). Type-locality: "St. Vincent". Distr. — Guatemala, West Indies (Dominica, St. Vincent), Ecuador, Brazil, Argentina, U.S.A. (California, Arizona, Texas). N. COMB.
- zernyi* Hendel, 1936:103, fig. 5 (head). Type-locality: Brazil, Pará, Santarém. N. SYN.
- capax* Cresson, 1938:26. Type-locality: Guatemala, Gualán. N. SYN.
- INCISUM (Coquillett), 1902:182 (*Discocerina*). Type-locality: Puerto Rico (Vieques Island, Fajardo, Mayaguez, Aguadillo, Utuado, Arroyo). Distr. — Entire Central and South America, West Indies (Puerto Rico, Jamaica, Dominica), U.S.A. (Florida).
- poecilogastra* Hendel, 1930b: 138 (*Discocerina*). Type-locality: Bolivia, Fortín Esteros.
- LEUCOPROCTUM (Loew), 1861:355 (Cent. 1, no. 93) (*Discocerina*). Type-locality: U.S.A., Maryland. Distr. — Mexico, Guatemala, Costa Rica, Panama, Colombia, Venezuela, Ecuador, Bolivia, Argentina; U.S.A. (Minnesota to Maine, south to Texas and Florida).
- PATENS Cresson, 1938:27. Type-locality: Uruguay, Montevideo. Distr. — Panama, Ecuador, Uruguay, Argentina.

### Genus POLYTRICHOPHORA Cresson

- POLYTRICHOPHORA Cresson, 1924:161. Type-species, *agens* Cresson (orig. des.).
- AGENS Cresson, 1924:161. Type-locality: U.S.A., Texas, Galveston. Distr. — West Indies (Bahamas); U.S.A. (coastal, Maine to Texas).
- BORINQUENI Cresson, 1930b:77. Type-locality: Puerto Rico, Adjuntas. Distr. — West Indies (Puerto Rico, Dominica).
- PULCHRA (Cresson), 1918:56 (*Discocerina*). Type-locality: Costa Rica, Turrucares. Distr. — Honduras, Costa Rica, Panama, Colombia, Ecuador, Peru, West Indies (Dominica).

SETULOSA (Cresson), 1918:58, pl. 3, fig. 16 (head) (*Discocerina*). Type-locality: Costa Rica, Filadelfia, Rio Tempisque. Distr. — Mexico, El Salvador, Costa Rica, Panama, Colombia, Ecuador, Bolivia, Argentina, West Indies (Dominica).

#### Genus PECTINIFER Cresson

PECTINIFER Cresson, 1944:4. Type-species, *Discocerina aenea* Cresson (orig. des.).

AENEUS (Cresson), 1918:59 (*Discocerina*). Type-locality: Costa Rica, Cartago, Irazú. Distr. — Costa Rica, Panama, West Indies (Dominica).

#### Genus PARATISSA Coquillett

PARATISSA Coquillett, 1900a:36. Type-species, *Drosophila pollinosa* Williston (orig. des.) = *semilutea* (Loew).

SEMILUTEA (Loew), 1869:51 (Cent. 8, no. 97) (*Cacoxenus*). Type-locality: "Cuba". Distr. — Panama, Galápagos Islands, West Indies (Bahamas, Cuba, Puerto Rico, Virgin Islands, Virgin Gorda, Barbuda, Antigua, Tobago, Dominica), Bermuda; U.S.A. (Florida).

*pollinosa* Williston, 1896:414 (*Drosophila*). Type-locality: "St. Vincent".

#### Tribe PSILOPINI

#### Genus PSILOPA Fallén

PSILOPA Fallén, 1823:6. Type-species, *Notiphila nitidula* Fallén (Rondani, 1856:132).

*Psilopa leucostoma* (Meigen) mines the leaves of sugar beet in Europe and North America.

DESMATA Williston, 1896:395. Type-locality: "St. Vincent". Distr. — West Indies (St. Vincent). Unrecognized.

DUPLA Cresson, 1940:2. Type-locality: U.S.A., New Jersey, Trenton. Distr. — West Indies (Bahamas); U.S.A. (Illinois to Maryland, south to Texas and Florida, Arizona).

NIGROPUNCTA Williston, 1896:393. Type-locality: "St. Vincent". Distr. — West Indies (St. Vincent).

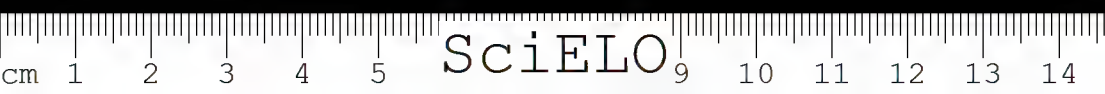
OLGA Cresson, 1922b:137. Type-locality: U.S.A., Washington, Olga. Distr. — El Salvador, Galápagos Islands, Chile; North America (Alaska to Quebec, south to California, Colorado and Texas).

PULCHRIPES Loew, 1878:197. Type-locality: U.S.A., Texas. Distr. — West Indies (Puerto Rico, Dominica), Mexico, Panama, Colombia, Ecuador, Peru, Brazil, Bolivia, Paraguay; southern U.S.A.

*unica* Cresson, 1926:250. Type-locality: Paraguay, San Bernardino.

#### Genus LEPTOPSILOPA Cresson

LEPTOPSILOPA Cresson, 1922b:136. Type-species, *Psilopa similis* Coquillett (orig. des.).





- ATRIMANA (Loew), 1878:197 (*Psilopa*). Type-locality: U.S.A., District of Columbia and Texas. Distr. — Mexico, Guatemala, West Indies (Cuba); North America (Manitoba to Quebec, south to Arizona and Florida).
- LINEANOTA Cresson, 1922b:136. Type-locality: Panama, Paraiso, Canal Zone. Distr. — Costa Rica, Panama, Colombia, Venezuela, Brazil, Guyana, Trinidad.
- METALLINA (Becker), 1919:203 (*Psilopa*). Type-locality: Ecuador (La Rinconada, Cuenca, Tulcán. Distr. — Colombia, Ecuador, Peru.
- NIGRICOXA Cresson, 1922b:136. Type-locality: Paraguay, Asunción. Distr. — Mexico (Veracruz), Honduras, El Salvador, Peru, Brazil, Paraguay, Argentina.
- NIGRIMANA (Williston), 1896:393 (*Psilopa*). Type-locality: "St. Vincent". Distr. — Entire Central and South America and West Indies from Mexico and Bahamas.
- willistoni* Cresson, 1918:53 (*Psilopa*; unnecessary nom. nov. for *nigrimana* Williston, not von Röser, 1840).
- SIMILIS (Coquillett), 1900a:33 (*Psilopa*). Type-locality: U.S.A., Florida, Biscayne Bay. Distr. — Mexico, Costa Rica, Panama, Ecuador, Venezuela, Peru, West Indies (Cuba, Dominica); U.S.A. (Texas to Florida).
- SUBAPICALIS Cresson, 1922b:136. Type-locality: Trinidad, Port of Spain. Distr. — Honduras, Costa Rica, Panama, Colombia, Venezuela, Brazil, Argentina, Trinidad.

#### Genus HELAEOMYIA Cresson

- HELAEOMYIA Cresson, 1941b:35. Type-species, *Psilopa petrolei* Coquillett (orig. des.).
- Mimapsilopa* Cresson, 1941b:36. Type-species, *Clasiopella metatarsata* Cresson (orig. des.).
- METATARSATA (Cresson), 1939:8 (*Clasiopella*). Type-locality: Panama, Pedro Miguel, Canal Zone. Distr. — Panama.
- nigra* Williston of Cresson, 1946:153. Needs new name.
- PETROLEI (Coquillett), 1899:8 (*Psilopa*). Type-locality: U.S.A., California, Los Angeles. Distr. — Trinidad, West Indies (Cuba); U.S.A. (California). Refs. — Thorpe, 1930:331; 1931:101 (biology, breeding in pools of petroleum); Bruner, 1951:59 (Cuba).
- SCHILDI (Cresson), 1944:5 (*Psilopa*). Type-locality: Costa Rica, La Suiza. Distr. — Costa Rica.

#### Genus CEROPSILOPA Cresson

- CEROPSILOPA Cresson, 1917b:340. Type-species, *nasuta* Cresson (orig. des.).
- Batula* Cresson, 1940:2. Type-species, *Psilopa mellipes* Coquillett (orig. des.).
- ADJUNCTA Cresson, 1925:165. Type-locality: Puerto Rico, Adjuntas. Distr. — West Indies (Puerto Rico, Dominica), U.S.A. (Florida).

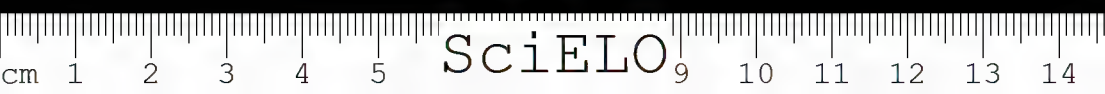
- COQUILLETTI Cresson, 1922b:136. Type-locality: U.S.A., California, Pacific Grove. Distr. — Mexico, Panama, Colombia, Venezuela, Argentina, West Indies (Bahamas, Haiti, Puerto Rico), Trinidad; U.S.A. (California to Maryland and Florida).
- COSTALIS Wirth, 1956:12, fig. 2 (wing). Type-locality: U.S.A., Virginia, Richmond County, Warsaw. Distr. — West Indies (Bahamas, Jamaica); U.S.A. (Virginia, Florida).
- DISPAR Cresson, 1922b:135. Type-locality: U.S.A., California, San Diego County. Distr. — Mexico; U.S.A. (California).
- MELIPES (Coquillett), 1900b:260 (*Psilopa*). Type-locality: Puerto Rico, Utuado and Arroyo. Distr. — West Indies (Cuba, Puerto Rico); U.S.A. (Texas, Florida).
- NASUTA Cresson, 1917b:341. Type-locality: Trinidad, Port of Spain. Distr. — West Indies (Cuba, Puerto Rico), Trinidad, Brazil; U.S.A. (Florida).
- STAFFORDI Cresson, 1925:166. Type-locality: U.S.A., Louisiana, New Orleans. Distr. — West Indies (Bahamas, Dominica); U.S.A. (coastal, California, Texas to Georgia).

#### Genus CLASIOPELLA Hendel

- CLASIOPELLA Hendel, 1914b:110. Type-species, *uncinata* Hendel (orig. des.).
- UNCINATA Hendel, 1914b:110. Type-locality: Taiwan, Anping. Distr. — West Indies (Dominica), U.S.A. (Florida), Australasian and Ethiopian Regions.

#### Genus CRESSONOMYIA Arnaud

- Plagiops* Cresson, 1918:53 (preocc. Townsend, 1911). Type-species, *nitidifrons* Cresson (orig. des.).
- Plagiopsis* Cresson, 1934:201 (nom. nov. for *Plagiops* Cresson; preocc. Brauer & Bergenstamm, 1890). Type-species, *Plagiops nitidifrons* Cresson (aut.).
- CRESSONOMYIA Arnaud, 1958:24 (nom. nov. for *Plagiopsis* Cresson). Type-species, *Plagiops nitidifrons* Cresson (aut.).
- ACICULATA (Loew), 1862:142 (*Psilopa*). Type-locality: "Cuba". Distr. — Mexico to Brazil and Bolivia, West Indies; U.S.A. (Texas to Georgia). Ref. — Williston, 1896:394, pl. 13, fig. 140 (wing), redescribed.
- metallica* Schiner, 1868:242 (*Ephygrobia*). Type-locality: "Venezuela".
- HINEI (Cresson), 1922b:135 (*Plagiops*). Type-locality: Guatemala, Puerto Barrios. Distr. — Mexico, Guatemala, Panama; U.S.A. (New York to Texas).
- MERIDIONALIS (Cresson), 1918:52 (*Psilopa*). Type-locality: Costa Rica, Cartago. Distr. — Mexico, Costa Rica, Brazil, Paraguay, West Indies (Puerto Rico).
- NITIDIFRONS (Cresson), 1918:54, pl. 3, fig. 12 (head) (*Plagiops*). Type-locality: Costa Rica, Guacimo. Distr. — Costa Rica, Panama, Brazil, Guyana, Bolivia, Paraguay, West Indies (St. Croix).
- SKINNERI (Cresson), 1922b:136 (*Psilopa*). Type-locality: Cuba, Guantánamo. Distr. — Panama, Brazil, Paraguay, Argentina, Venezuela, West Indies (Cuba, Jamaica, Puerto Rico); U.S.A. (Florida).



## Genus RHYSOPHORA Cresson

- RHYSOPHORA Cresson, 1924:159. Type-species, *robusta* Cresson (mon.).  
CAERULEIVENTRIS (Loew), 1862:144 (*Psilopa*). Type-locality: "Cuba". Distr. — West Indies (Cuba, Bahamas, Haiti).  
UMBROSA (Loew), 1862:143 (*Psilopa*). Type-locality: "Cuba". Distr. — West Indies (Cuba, Bahamas, U.S.A. (Florida)).

## Genus PELTOPSILOPA Hendel

- PELTOPSILOPA Hendel 1914a:156. Type-species, *aspistes* Hendel (orig. des.).  
ASPISTES Hendel, 1914a:158, figs. 5, 6, 7 (habitus, head, wing). Type-locality: Colombia, Aracataca. Distr. — Colombia, Venezuela.  
SCHWARZI Cresson, 1922b:135. Type-locality: Cuba, Cayamas. Distr. — West Indies (Cuba).

## Tribe DISCOMYZINI

### Genus DISCOMYZA Meigen

- DISCOMYZA Meigen, 1830:76. Type-species, *Psilopa incurva* Fallén (mon.).  
Ref. — Cresson, 1939:1 (rev., key).  
MACULIPENNIS (Wiedemann), 1824:57 (*Notiphila*). Type-locality: "East Indies". Distr. — Surinam, Brazil, West Indies (Cuba, Bahamas, Dominican Republic, Puerto Rico, St. Croix); U.S.A. (California), Oriental and Australasian regions.  
*balioptera* Loew, 1862:140. Type-locality: "Cuba".

## Genus CLANONEURUM Becker

- CLANONEURUM Becker, 1903:165. Type-species, *Discomyza cimiciformis* Haliday (Becker, 1926:24).  
AMERICANUM Cresson, 1940:1. Type-locality: U.S.A., California, San Diego. Distr. — Mexico, West Indies (Bahamas); western North America and Atlantic and Gulf States.

## Subfamily NOTIPHILINAE

Ref. — Cresson, 1947:35 (review, keys, distr.)

## Tribe TYPOPSILOPINI

### Genus TYPOPSILOPA Cresson

- TYPOPSILOPA Cresson, 1916b:147. Type-species, *flavitaris* Cresson (orig. des.) = *nigra* (Williston).  
Ref. — Wirth (in press) (rev.).  
ATRA (Loew), 1862:143 (*Psilopa*). Type-locality: U.S.A., "Middle States". Distr. — Mexico, Costa Rica; North America (California to Ontario and New York, south to Georgia and Texas).

NIGRA (Williston), 1896:393, pl. 13, fig. 139 (head) (*Psilopa*). Type-locality: "St. Vincent". Distr. — Mexico, Nicaragua, Panama, West Indies (Bahamas, Dominican Republic, Puerto Rico, Dominica); U.S.A. (California, Arizona, Texas to Virginia and Florida).

*flavitaris* Cresson, 1916b:147. Type-locality: U.S.A., Arizona, Bill Williams Fork.

### Tribe HYDRELLIINI

#### Genus HYDRELLIA Robineau-Desvoidy

HYDRELLIA Robineau-Desvoidy, 1830:790. Type-species, *aurifacies* Robineau-Desvoidy (Westwood, 1840:153) = *flaviceps* (Meigen).

CALVERTI Cresson, 1918:48. Type-locality: Costa Rica, Río Surubres, Bonnefil Farm. Distr. — Costa Rica, Panama, Ecuador, West Indies (Cuba, Puerto Rico, Dominican Republic, Dominica), Trinidad.

OSORNO Cresson, 1931a:96. Type-locality: Chile, Osorno. Distr. — Chile.

SPINICORNIS Cresson, 1918:48, pl. 3, fig. 5 (head). Type-locality: Costa Rica, Alajuela. Distr. — Costa Rica.

TIBIALIS Cresson, 1917b:341. Type-locality: U.S.A., Idaho, Moscow. Distr. — Mexico, Costa Rica, Bolivia, Chile, West Indies (Dominica); North America (Washington to Quebec, south to California and Florida).

VULGARIS Cresson, 1931a:94. Type-locality: Chile, Peulla. Distr. — Costa Rica, Panama, Venezuela, Ecuador, Galápagos Islands, Juan Fernandez Islands, Uruguay, Argentina, Chile.

*hypoleuca* Loew of Cresson, 1918:49.

*griseola* Fallén of Becker, 1919:203.

*obscuripes* Loew of Becker, 1919:204.

XANTHOCERA Cresson, 1938:33. Type-locality: Brazil, Rio de Janeiro. Distr. — Panama, Brazil.

### Tribe NOTIPHILINI

#### Genus NOTIPHILA Fallén

NOTIPHILA Fallén, 1810:22. Type-species, *cinerea* Fallén (Westwood, 1840:153). Ref. — Cresson, 1917a:27 (rev., key).

#### Subgenus NOTIPHILA Fallén

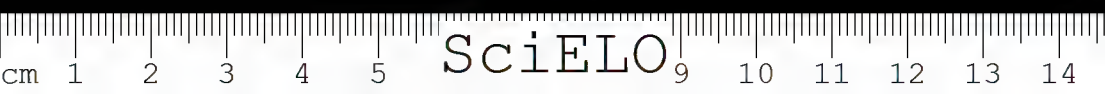
ANCUDENSIS Cresson, 1931a:98. Type-locality: Chile, Ancud. Distr. — Chile.

ERYTHROCERA Loew, 1878:194. Type-locality: "Cuba". Distr. — Entire Central and South America, West Indies (Cuba, Puerto Rico, Dominica, St. Vincent); U.S.A. (California to Illinois and New Jersey, south to Florida).

*bellula* Williston, 1896:390. Type-locality: "St. Vincent".

*punctifera* Cresson, 1917a:34. Type-locality: Brazil, Mato Grosso, Corumbá.

*pura* Cresson, 1917a:41 (as *virgata* var.). Type-locality: Panama, Tabernilla, Canal Zone.





- rubricornis* Becker, 1919:201. Type-locality: Ecuador, Troya, Casita-gua, Cuenca.
- FULVIMANA Cresson, 1917a:47. Type-locality Cuba, San Diego de los Baños. Distr. — Cuba.
- STRIATA Williston, 1897:5. Type-locality: "Brazil". Distr. — Guatemala, Costa Rica, Panama, Venezuela, Ecuador, Brazil, Paraguay.
- facialis* Cresson, 1917a:38. Type-locality: Panama, Tabernilla, Canal Zone.
- TERES Cresson, 1931a:97. Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina, Uruguay, Chile.
- VIRGATA Coquillett, 1900b:259. Type-locality: Puerto Rico, Vieques Island (lectotype selected by Cresson, 1917a:40). Distr. — West Indies (Dominican Republic, Puerto Rico, Martinique).

#### Subgenus AGROLIMNA Cresson

- Notiphila*, subg. AGROLIMNA Cresson, 1917a:48. Type-species, *scalaris* Loew (orig. des.).
- FRONTALIS Coquillett, 1904:97. Type-locality: Nicaragua, Managua and Granada. Distr. — Mexico, Guatemala, Nicaragua, Costa Rica, Panama, Colombia, Ecuador, Argentina, Brazil.
- pulchrifrons* Williston, 1897:5 (preocc. Loew, 1872). Type-locality: "Brazil".
- FURCATA (Coquillett), 1902:182 (*Dichaeta*). Type-locality: U.S.A., Florida, Biscayne Bay and Lake Worth. Distr. — West Indies (Bahamas, Haiti, Puerto Rico, Dominica); U.S.A. (coastal, Virginia to Florida and Texas).
- TRIANGULIFERA Schiner, 1868:241. Type-locality: "Venezuela". Distr. — Ecuador, Venezuela.

#### Unrecognized species of *Notiphila*

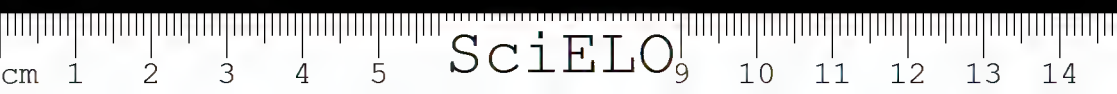
- ALBOCLAVATA Bigot, 1888:41. Type-locality: Orange Bay, Tierra del Fuego.
- BRASILIENSIS Walker, 1856:408. Type-locality: "Brazil".
- COSTALIS Walker, 1856:408. Type-locality: "Brazil".
- DECORATA Williston, 1896:389. Type-locality: "St. Vincent".
- EXOTICA Wiedemann, 1830:590. Type-locality: Uruguay, Montevideo.

#### Genus PARALIMNA Loew

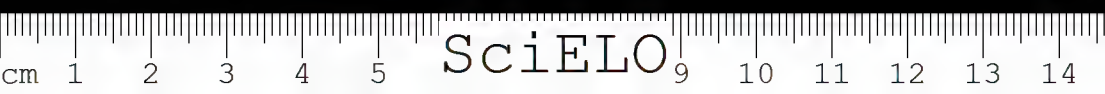
- PARALIMNA Loew, 1862:138. Type-species, *appendiculata* Loew (mon.). = *punctipennis* (Wiedemann).
- Ref. — Cresson, 1916a:102 (rev., key); 1947:46 (rev.)

#### Subgenus PARALIMNA Loew

- appendiculata* Loew. Not Neotropical.
- ARGYROSTOMA Cresson, 1916:120. Type-locality: Costa Rica, Banana River. Distr. — Mexico, Costa Rica, Ecuador.



- BISTRIATA Hendel, 1930b:128. Type-locality: Bolivia, El Cairo, Santa Cruz de la Sierra. Distr. — Bolivia.
- BRUNNEICEPS Cresson, 1916:120. Type-locality: Costa Rica, Turrucare. Distr. — Guatemala, El Salvador, Nicaragua, Costa Rica, Panama.
- CILIFERA Hendel, 1930b:130. Type-locality: Argentina (Aguarai), Bolivia (El Cairo, Santa Cruz de la Sierra). Distr. — Bolivia, Argentina.
- FLEXINEURIS Cresson, 1916:111, pl. 9, fig. 8 (wing). Type-locality: Peru, Chosica. Distr. — Ecuador, Peru, Argentina.
- MERIDIONALIS Cresson, 1916:119. Type-locality: Costa Rica, La Carpentera. Distr. — Mexico, Guatemala, Costa Rica, Panama, Brazil, Peru, Paraguay, Argentina.
- MOLOSSUS Schiner, 1868:242. Type-locality: "Venezuela". Distr. — Colombia, Venezuela, Trinidad, Brazil, Bolivia, Paraguay, Argentina.
- captiosa* Cresson, 1916:122 (as *puncticornis* var.). Type-locality: Trinidad, Montserrat.
- luctans* Cresson, 1933:66. Type-locality: Argentina, Misiones, Posadas.
- MULTIPUNCTATA Williston, 1896:390. Type-locality: "St. Vincent". Distr. — Mexico, Nicaragua, Costa Rica, Panama, Venezuela, West Indies (Cuba, Bahamas, Puerto Rico, St. Thomas, Jamaica, Dominica, St. Vincent, Grenada); U.S.A. (California to Texas and Florida).
- ciliata* Cresson, 1916:111, pl. 9, fig. 7 (leg). Type-locality: Costa Rica, Cartago.
- NIGROPICATA Cresson, 1916:118. Type-locality: Guatemala, Puerto Barrios. Distr. — Mexico, Guatemala, Costa Rica, Panama.
- PECTINATA Hendel, 1930b:131. Type-locality: Argentina, Lapango, Pilcomayo. Distr. — Uruguay, Paraguay, Argentina.
- PIGRA Cresson, 1933:65. Type-locality: "Ecuador". Distr. — Colombia, Ecuador.
- PLEURIVITTATA Cresson, 1916:122. Type-locality: Peru, Callanga. Distr. — Peru.
- PLUMBICEPS Cresson, 1916a:110. Type-locality: "Jamaica". Distr. — Ecuador, West Indies (Haiti, Dominican Republic, Jamaica, Puerto Rico).
- PUNCTICORNIS Cresson, 1916:121. Type-locality: Costa Rica, Peralta. Distr. — Honduras, Costa Rica, Panama, Colombia, Peru.
- SANA Cresson, 1929:185. Type-locality: Paraguay, San Bernardino. Distr. — Paraguay.
- SECUNDA Schiner, 1868:241. Type-locality: "Venezuela". Distr. — Mexico, Guatemala, Honduras, Costa Rica, Panama, Colombia, Venezuela, Guyana, Ecuador, Peru, Brazil, Paraguay.
- SERA Cresson, 1933:67. Type-locality: Jamaica, Yallahs Valley, Blue Mountains. Distr. — West Indies (Jamaica).
- STICTA Hendel, 1930b:127. Type-locality: Argentina, San José. Distr. — Argentina.
- TAURUS Cresson, 1916:123, pl. 9, fig. 6 (head). Type-locality: Brazil, Mato Grosso, Corumbá. Distr. — Brazil, Paraguay.
- TEXANA Cresson, 1915:69. Type-locality: U.S.A., Texas, Austin. Distr. — Mexico; U.S.A. (Kansas, Oklahoma, Missouri, Texas).



## Subgenus PHAIOSTERNA Cresson

*Paralimna*, subg. PHAIOSTERNA Cresson, 1916a:104. Type-species, *Paralimna decipiens* Loew (orig. des.).

DECIPIENS Loew, 1878:195. Type-locality: U.S.A., "Texas". Distr. — Mexico to Colombia, Ecuador, Bolivia, Trinidad, West Indies (Cuba, Bahamas, Jamaica, Puerto Rico, Dominica); U.S.A. (California to Michigan and Florida). Ref. — Cresson, 1916:108, pl. 9, fig. 5 (head).

OBSCURA Williston, 1896:391. Type-locality: "St. Vincent". Distr. — Mexico, Costa Rica, Panama, Ecuador, Bolivia, Brazil, Paraguay, Argentina, Trinidad, West Indies (Cuba, Jamaica, Puerto Rico, Virgin Islands, Grenada), Bermuda; U.S.A. (southern Florida).

## Genus OEDENOPS Becker

OEDENOPS Becker, 1903:178. Type-species, *isis* Becker (mon.).

NUDUS (Coquillett), 1902:182 (*Paralimna*). Type-locality: Mexico, Tabasco, Frontera. Distr. — Mexico, Honduras, Ecuador, West Indies (Dominica); U.S.A. (California to Mississippi).

## Tribe PHILYGRIINI

### Genus PHILYGRIA Stenhammar

*Notiphila*, sectio PHILYGRIA Stenhammar, 1844:154. Type-species, *Notiphila flavipes* Fallén (Coquillett, 1910:588).

*Hydrina*, authors, in part, not Robineau-Desvoidy.

LONGIPENNIS (Hendel), 1930b:143 (*Hyadina*). Type-locality: Argentina, Estanzia "La Germania". Distr. — Argentina, Chile.

*intensa* Cresson, 1931a:94 (*Hydrina*). Type-locality: Argentina, Rio Negro, Bariloche. N. SYN.

NITIFRONS (Williston), 1896:401 (*Hydrina*). Type-locality: "St. Vincent". Distr. — West Indies (St. Vincent).

*nitidifrons* Cresson, 1947:44, emend. or error.

### Genus NOSTIMA Coquillett

NOSTIMA Coquillett, 1900a:35. Type-species, *slossonae* Coquillett (orig. des.).

*Philygriola* Hendel, 1917a:42. Type-species, *Notiphila picta* Fallén (orig. des.).

Ref. — Cresson, 1941a:1 (rev. Neotropical species; key).

ABBREVIATA Cresson, 1941a:3, fig. 3 (wing). Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Costa Rica, Panama, Colombia, Ecuador, Venezuela, Brazil.

CANENS Cresson, 1941a:5. Type-locality: Brazil, Guanabara, Rio de Janeiro, Grajaú. Distr. — Panama, Brazil.

ELEGANTULA Hendel, 1930b:141. Type-locality: Argentina, Aguarai. Distr. — El Salvador, Costa Rica, Argentina.

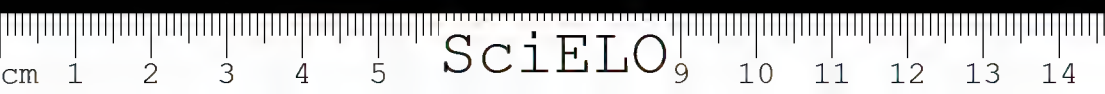
- FLAVIDA Cresson, 1947:43. Type-locality: Costa Rica, Higuito. Distr. — Costa Rica, Panama, West Indies (Dominica).
- GILVIPES (Coquillett), 1900b:261 (*Hydrellia*). Type-locality: Puerto Rico, Bayamon. Distr. — Mexico, Costa Rica, Panama, Colombia, Ecuador, West Indies (Puerto Rico); U.S.A. (Florida).
- immaculata* Cresson, 1918:49. Type-locality: Costa Rica, Río Surubres, Bonnefil Farm. Distr. — Costa Rica.
- GIOVANNOLI Wirth, 1956:15. Type-locality: Bahamas, Cat Island, McQueen. Distr. — West Indies (Bahamas).
- ILYTHEOIDES Cresson, 1941a:8, fig. 4 (wing). Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica.
- NITIDIGASTER Cresson, 1947:43. Type-locality: Peru, Iquitos. Distr. — Peru.
- NIVEVENOSA Cresson, 1930b:80. Type-locality: Puerto Rico, Aguadilla. Distr. — Mexico, Costa Rica, Panama, Colombia, Peru, Venezuela, Brazil, Argentina, West Indies (Bahamas, Puerto Rico, Antigua, Dominica); U.S.A. (Florida).
- NIVEOFASCIATA Cresson, 1947:40. Type-locality: Costa Rica, Higuito. Distr. — Costa Rica, Ecuador, Venezuela.
- PULCHRA (Williston), 1896:399, pl. 13, fig. 144 (wing) (*Hydrellia*). Type-locality: "St. Vincent". Distr. — Mexico, Costa Rica, Panama, Colombia, Brazil, Paraguay, Argentina, West Indies (Haiti, St. Vincent, Dominica); U.S.A. (Florida). Ref. — Cresson, 1941a:6, fig. 5 (wing).
- basalis* Cresson, 1914:246, pl. 10, fig. 1 (wing) (*Philygria*). Type-locality: Argentina, Tucumán.
- SCHILDI Cresson, 1941a:4. Type-locality: Costa Rica, La Suiza de Turrialba. Distr. — Costa Rica, Argentina.
- SLOSSONAE Coquillett, 1900a:35. Type-locality: U.S.A., Florida, Biscayne Bay. Distr. — Mexico, Guatemala, Costa Rica, Ecuador, Brazil, Argentina; U.S.A. (Florida). Ref. — Cresson, 1941a:5, figs. 1, 2 (head, wing).
- calverti* Cresson, 1914:247, pl. 10, fig. 2 (wing) (*Philygria*). Type-locality: Costa Rica, Alajuela.
- SPILOGASTER Cresson, 1947:41. Type-locality: Costa Rica, Higuito. Distr. — Costa Rica, Argentina.
- WILLISTONI Wirth, nom. nov. for *nitida* (Williston). Type-locality: "St. Vincent". Distr. — West Indies (St. Vincent, Dominica).
- nitida* Williston, 1896:400, pl. 13, fig. 145 (wing, head) (*Hydrina*; preocc. Robineau-Desvoidy, 1830). Type-locality: "St. Vincent". N. COMB.

### Tribe ILYTHEINI

Ref. — Cresson, 1943:1 (world rev., keys, figs.).

### Genus ILYTHEA Haliday

- Ephydra*, subg. ILYTHEA Haliday, 1839:408. Type-species, *Ephydra spilota* Curtis (mon.).
- CANICEPS Cresson, 1918:50. Type-locality: Costa Rica, Cartago. Distr. — Costa Rica; U.S.A. (Washington to California).





- CRESSONI Edwards, 1933:118. Type-locality: Chile, Mechuque Island. Distr. — Chile, Argentina.
- FUSCA Cresson, 1931a:99, fig. 21a (wing). Type-locality: Chile, Peulla. Distr. — Chile.
- NIVEOGUTTATA Cresson, 1931a:99, fig. 21b (wing). Type-locality: Chile, Puerto Varas. Distr. — Chile.

### Genus ZEROS Cresson

- ZEROS Cresson, 1943:10. Type-species, *Ilythea obscura* Cresson (orig. des.).
- CALVERTI (Cresson), 1918:51, pl. 3, fig. 21 (wing, as *fenestralis*, error) (*Ilythea*). Type-locality: Costa Rica, Filadelfia, Río Tempisque. Distr. — Mexico, Costa Rica, Panama, Ecuador, West Indies (Puerto Rico); U.S.A. (Florida). Ref. — Cresson, 1943:11, pl. 1, fig. 4 (wing).
- FENESTRALIS (Cresson), 1918:51 (*Ilythea*). Type-locality: Costa Rica, Cartago. Distr. — El Salvador, Costa Rica, Panama, Ecuador, Brazil, Uruguay, Argentina, West Indies (Cuba, Puerto Rico); U.S.A. (Florida). Ref. — Cresson, 1943:49, pl. 1, fig. 6 (wing).
- argyrostoma* Hendel, 1930b:144 (*Ilythea*). Type-locality: Argentina, Lapango, Pilcomayo.
- FLAVIPES (Williston), 1896:403 (?*Ilythea*). Type-locality: "St. Vincent". Distr. — Mexico, Costa Rica, Panama, Colombia, Ecuador, Brazil, Bolivia, Argentina, West Indies (Cuba, Puerto Rico, Jamaica, St. Vincent); North America (Ontario south to Texas and Florida). Refs. — Cresson, 1918:51, pl. 3, figs. 19, 20 (head, wing); 1943:14, pl. 1, fig. 7 (wing).
- oscitans* Walker of Coquillett, 1900b:260 (*Ilythea*), erroneous Puerto Rico record.
- OBSCURUS (Cresson), 1918:52 (*Ilythea*). Type-locality: Costa Rica, Filadelfia, Río Tempisque. Distr. — Guatemala, Costa Rica, West Indies (Puerto Rico); U.S.A. (Arizona, New Mexico).

### Subfamily PARYDRINAE

#### Tribe HYADININI

#### Genus HYADINA Haliday

- Hydrina* Robineau-Desvoidy, 1830:794 (preocc. Rafinesque, 1815). Type-species, *vernalis* Robineau-Desvoidy (Coquillett, 1910:553) = *guttata* (Fallén). Cresson (1930a:93) attempted to set aside Coquillett's type designation as invalid (but without proper reason), substituting *maculipennis* Robineau-Desvoidy as type.
- Ephydra*, subg. HYADINA Haliday, 1839:406. Type-species, *Notiphila guttata* Fallén (Westwood, 1840-153).
- CERTA Cresson, 1931a:101. Type-locality: Chile, Castro. Distr. — Chile, Argentina, Juan Fernandez Islands.
- IMMACULATA Becker, 1919:204. Type-locality: Ecuador, Cuenca, Borma, Casitagua, El Angel, Mirador and Loja. Distr. — Ecuador.

PORTERI Brèthes, 1919:43. Type-locality: Chile, Río Blanco, Santiago. Distr. — Chile.

### Genus LYTOGASTER Becker

LYTOGASTER Becker, 1896:202. Type-species, *Philygria abdominalis* Stenhammar (orig. des.).

ANGUSTATA Cresson, 1934:206. Type-locality: Cuba, Pinar del Río. Distr. — West Indies (Cuba, Bahamas).

FLAVIPES (Sturtevant & Wheeler), 1954:212 (*Hyadina*). Type-locality: U.S.A., California, Pasadena. Distr. — Mexico (Baja California); U.S.A. (California).

GRANULOSA Cresson, 1914:249. Type-locality: Costa Rica, Guapiles. Distr. — Guatemala, Costa Rica, Panama, Ecuador, Venezuela, West Indies (Dominica).

PALLIPES Cresson, 1914:248. Type-locality: Costa Rica, Cachi. Distr. — Costa Rica, Ecuador, West Indies (Dominican Republic).

WILLISTONI Cresson, 1916b:150. Type-locality: U.S.A., California, Berkeley Hills. Distr. — Costa Rica; U.S.A. (California). Ref. — Cresson, 1918:62, pl. 3, fig. 18 (body profile).

### Genus PELINOIDES Cresson

PELINOIDES Cresson, 1931a:102. Type-species, *sulcatus* Cresson (orig. des.).

SULCATUS Cresson, 1931a:102. Type-locality: Chile, Castro. Distr. — Chile.

UNCTUS Cresson, 1934:210. Type-locality: Uruguay, Montevideo. Distr. — Uruguay.

### Genus GASTROPS Williston

GASTROPS Williston, 1897:3. Type-species, *niger* Williston (mon.).

Refs. — Wirth, 1958:247 (rev.). Biology — Bokermann (1957:231) reported that larvae of *Gastrops niger* parasitized the egg clusters of a frog, *Eupemphix*, in Brazil. Wirth (1958:249) determined specimens taken in 1943 by Bertha Lutz "parasitas de postura de batráquio do gênero *Eupemphix*" as *Gastrops willistoni* Cresson.

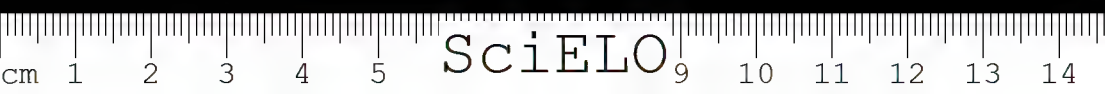
AUROPUNCTATUS Hendel, 1930b:145. Type-locality: Bolivia (Guarrayo, San José de Chiquitos, El Cairo near Santa Cruz de la Sierra, Villa Montes), Argentina (Aguarai). Distr. — Panama, Ecuador, Venezuela, Bolivia, Argentina.

FLAVIPES Wirth, 1958:248. Type-locality: Peru, Perené. Distr. — Peru, Brazil.

PUSCIVENOSUS Wirth, 1958:248. Type-locality: Costa Rica, Higuito, San Mateo. Distr. — Costa Rica.

NIGER Williston, 1897:3. Type-locality: "Grenada and Brazil (Rio de Janeiro)". Distr. — Mexico to Panama, Colombia, Ecuador, Venezuela, Bolivia, Brazil, Argentina, Trinidad, West Indies (Grenada, Dominica). Ref. — Cresson, 1918:6, pl. 3, fig. 10 (head).

WILLISTONI Cresson, 1914:250. Type-locality: Brazil, Mato Grosso, Chapada. Distr. — Costa Rica, Guyana, Brazil.



## Genus BECKERIELLA Williston

BECKERIELLA Williston, 1897:2. Type-species, *Ephydra bispinosa* Thomson (mon.) = *bispinosa* (Fabricius).

Ref. — Cresson, 1934:205 (key).

BISPINOSA (Fabricius), 1805:210 (*Scatophaga*). Type-locality: "America meridionali". Distr. — Brazil, Ecuador. Ref. — Cresson, 1934:202, pl. 15, figs. 1-3 (head, wing, scutellum, as *bispinosa* Thomson).

*bispinosa* Thomson, 1869:593 (*Ephydra*; preocc. *bispinosa* Fabricius 1805). Type-locality: Brazil, Guanabara, Rio de Janeiro.

MAGNICORNIS Cresson, 1934:203, pl. 15, figs. 7-9 (head, wing, scutellum). Type-locality: Panama, Alhajuela, Canal Zone. Distr. — Costa Rica, Panama.

PENDICORNIS Cresson, 1934:205, pl. 15, figs. 10-11 (head, wing). Type-locality: "Costa Rica". Distr. — Nicaragua, Costa Rica, Panama, Venezuela.

SCHILDI Cresson, 1934:203, pl. 15, figs. 4-6 (head, wing, scutellum). Type-locality: Costa Rica, Higuito. Distr. — Costa Rica, Colombia, Venezuela.

## Genus PHYSEMOPS Cresson

PHYSEMOPS Cresson, 1934:211. Type-species, *Psilephydra nemorosa* Cresson (orig. des.).

NEMOROSUS (Cresson), 1914:244, pl. 10, fig. 4 (head) (*Psilephydra*). Type-locality: Costa Rica, Juan Viñas. Distr. — Mexico, Honduras, El Salvador, Costa Rica, Panama, Ecuador, Brazil, West Indies (Dominica). Ref. — Cresson, 1918:64, pl. 3, fig. 26 (head).

## Genus BRACHYDEUTERA Loew

BRACHYDEUTERA Loew, 1862:162. Type-species, *dimidiata* Loew (mon.) = *argentata* (Walker).

Ref. — Wirth, 1964:3 (rev., key, figs. male genitalia).

NEOTROPICA Wirth, 1964:8, fig. 12 (male genitalia). Type-locality: Mexico, La Gloria, Cardel, Vera Cruz. Distr. — Mexico, Guatemala, Costa Rica, Panama, Ecuador, Brazil, West Indies (Cuba, Bahamas, Jamaica, Puerto Rico); U.S.A. (North Carolina, Louisiana, Florida). Ref. — Cresson, 1918:67, pl. 3, fig. 24 (head).

*argentata*, authors, not Walker.

## Genus OCHTHERA Latreille

OCHTHERA Latreille, 1802:462. Types-species, *Musca manicata* Fabricius (Latreille, 1810:444) = *mantis* (De Geer).

Ref. — Cresson, 1938:35 (key to Neotropical species).

BAIA Cresson, 1931b:169. Type-locality: Mexico, Baja California, Mulege. Distr. — Mexico, Guatemala, El Salvador, Panama; U.S.A. (California).

- CUPRILINEATA Wheeler, 1896:123 (April). Type-locality: "St. Vincent".  
Distr. — Mexico, Honduras, Guatemala, Panama, Ecuador, Brazil,  
Paraguay, Argentina, West Indies (St. Vincent); U.S.A. (California  
to Texas).  
*cuprilineata* Williston, 1896:402, pl. 13, fig. 148 (wing) (September).  
Type-locality: "St. Vincent".
- HUMILIS Williston, 1897:6. Type-locality: Brazil, Rio de Janeiro. Distr.  
— Guatemala, Costa Rica, Trinidad, Brazil. Ref. — Cresson,  
1918:65, pl. 3, fig. 25 (fore leg).
- LAUTA Wheeler, 1896:121. Type-locality: U.S.A., Wisconsin, Milwaukee.  
Distr. — Mexico, Guatemala; U.S.A. (Wisconsin to Texas).
- LORETA Cresson, 1931b:168. Type-locality Mexico, Baja California, Loreta.  
Distr. — Mexico, West Indies (Cuba, Bahamas).
- MANTIS (De Geer), 1776:143 (*Musca*). Type-locality: "Europe". Distr. —  
Guatemala; Europe and North America.
- PILOSA Cresson, 1926:255. Type-locality: U.S.A., New Mexico, Alamogordo.  
Distr. — Guatemala, Panama, Peru; U.S.A. (Arizona, New Mexico).

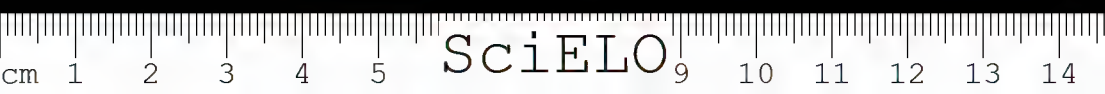
### Genus STENOCHTHERA Hendel

- STENOCHTHERA Hendel, 1930b:131. Type-species, *angustifacies* Hendel (orig.  
des.).  
Ref. — Cresson, 1938:37 (key).
- AUGUSTIFACIES Hendel, 1930b:132. Type-locality: Bolivia, El Cairo and  
Guarrayo, Santa Cruz de la Sierra. Distr. — Costa Rica, Panama,  
Brazil, Paraguay, Bolivia.
- CAERULEOVITTATA Hendel, 1930b:133. Type-locality: Bolivia, San José, Chi-  
quitos. Distr. — Brazil, Venezuela, Guyana, Paraguay, Bolivia,  
Argentina, West Indies (Cuba).
- NIGRICOMA Cresson, 1938:37. Type-locality: Brazil, Rio de Janeiro, Angra  
dos Reis, Jussaral. Distr. — Brazil.
- REGALIS (Williston), 1897:6 (*Ochthera*). Type-locality: Brazil, Rio de  
Janeiro. Distr. — Honduras, Ecuador, Guyana, Brazil.  
*painteri* Cresson, 1931b:169 (*Ochthera*). Type-locality: Honduras,  
Puerto Castilla.
- TRIORNATA (Cresson), 1926:255 (*Ochthera*). Type-locality: Paraguay, San  
Luis. Distr. — Brazil, Paraguay.
- WRIGHTII (Cresson), 1931b:169 (*Ochthera*). Type-locality: "Cuba". Distr. —  
West Indies (Cuba, Puerto Rico).

### Tribe PARYDRINI

#### Genus PARYDRA Stenhammar

- Napaea* Robineau-Desvoidy, 1830:799 (preocc. Hübner, 1819). Type-species,  
*stagnicola* Robineau-Desvoidy (Westwood, 1840:153) = *coarctata*  
(Fallén).
- Ephydra*, sectio PARYDRA Stenhammar, 1844:144. Type-species, *aquila*  
Fallén (Coquillett, 1910:585).





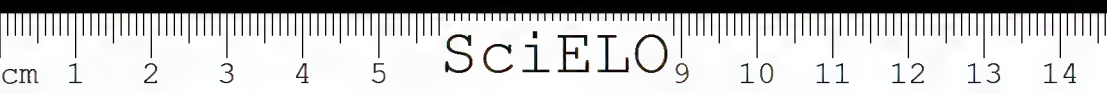
- AUREOLA Cresson, 1931a:103. Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina, Chile.
- CILIGENA (Rondani), 1868:32 (*Ephydra*). Type-locality: "Argentina". Distr. — Argentina.
- FLAVIPES (Hendel), 1930b:147 (*Napaea*). Type-locality: Argentina, Sierra de Córdoba and San José. Distr. — Argentina.
- HUMILIS Williston, 1897:7. Type-locality: Brazil, Rio de Janeiro. Distr. — Costa Rica, Panama, Ecuador, Brazil, Paraguay, Uruguay, Argentina, West Indies (Cuba, Dominica).
- humeralis* Cresson, 1931a:104, error.
- fossarum* (Haliday), of authors.
- NIGRIPES (Cresson), 1918:62, pl. 3, fig. 17 (head) (*Napaea*). Type-locality: Costa Rica, Cartago. Distr. — Costa Rica.
- OCHROPUS (Thomson), 1869:592 (*Ephydra*). Type-locality: Uruguay, Montevideo. Distr. — Uruguay.

Tribe LIPOCHAETINI  
Genus LIPOCHAETA Coquillett

- LIPOCHAETA Coquillett, 1896:220. Type-species, *slossonae* Coquillett (orig. des.).
- SLOSSONAE Coquillett, 1896:220 (fig. head). Type-locality: U.S.A., Florida, Punta Gorda. Distr. — Mexico (Baja California), Panama, West Indies (Bahamas); U.S.A. (California to Oklahoma and Massachusetts, south to Florida).

Subfamily EPHYDRINAE  
Tribe EPHYDRINI  
Genus EPHYDRA Fallén

- EPHYDRA Fallén, 1810:22. Type-species, *riparia* Fallén (Curtis, 1832: pl. 413).
- Refs. — Aldrich, 1912:77 (biology, figs. of immature stages); Rooth (1965:36) gives evidence that larvae of *Ephydra cinerea* Jones are the principal food of the flamingos nesting on Bonaire Island in the Netherlands Antilles.
- CINEREA Jones, 1906:159. Type-locality: "Southern California". Distr. — Mexico, West Indies (Bahamas, Virgin Islands, Puerto Rico, Virgin Gorda, Bonaire); U.S.A. (Hawaii, California to Utah and Texas).
- gracilis* Packard, 1871:105. Type-locality: U.S.A., Utah, Great Salt Lake. Following Sturtevant & Wheeler, 1954:168, *gracilis* Packard which was described from the larva, is considered unrecognizable. Refs. — Aldrich, 1912:78; Rooth, 1956:3; Wolcott, 1951; Wolcott & Martorell, 1937:536.
- MEXICANA Cresson, 1934:214. Type-locality: "Mexico". Distr. — Mexico.

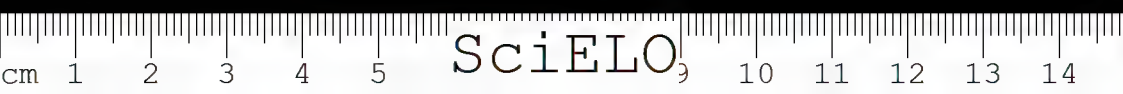


## Genus DIMECOENIA Cresson

- DIMECOENIA Cresson, 1916b:152. Type-species, *Coenia spinosa* Loew (orig. des.).
- Ref. — Cresson, 1935:349 (key); Oliveira, 1954a:187 (discussion and figures).
- ABRUPTA Cresson, 1935:352. Type-locality: Argentina, Mendoza. Distr. — Argentina.
- CAESIA (Wulp), 1883:58 (*Ephydra*). Type-locality: "Argentina". Distr. — Uruguay, Argentina, Chile, Juan Fernandez Islands. Ref. — Hennig, 1943:119, figs. 1, 2, 7, 9, pl. 2, fig. 4 (larva).
- pravoneura* Hendel, 1930b:150 (*Ephydra*). Type-locality: Argentina, Sierra de Córdoba.
- CARRERA Oliveira, 1957:305, figs. 1-8 (wing, male and female genitalia). Type-locality: Brazil, São Paulo, Guarujá. Distr. — Brazil.
- CHILENSIS (Macquart), 1850:303, pl. 28, fig. 5 (head) (*Ephydra*). Type-locality: "Chile". Distr. — Chile. Ref. — Cresson, 1935:350 (redescr.).
- COLTAENSIS Cresson, 1935:353. Type-locality: Ecuador, Colta. Distr. — Ecuador.
- DENSEPILOSA (Hendel), 1930b:152 (*Ephydra*). Type-locality: Argentina, Tapikiolé. Distr. — Argentina.
- GILVIPES (Coquillett), 1901:377 (*Ephydra*). Type-locality: Galápagos Islands, Albemarle Island. Distr. — Galápagos Islands.
- GRUMANNI Oliveira, 1954b:272, figs. 6-10 (wing, male and female genitalia). Type-locality: Brazil, Rio Grande do Sul, Tôrres. Distr. — Brazil. Ref. — Oliveira, 1958:167, figs. 1-4 (larva).
- LENTI Oliveira, 1954a:188, figs. 1-19 (wing, genitalia, larva). Type-locality: Chile, Antofagasta, El Tatío, San Pedro de Atacama. Distr. — Chile.
- LOPESI Oliveira, 1954b:269, figs. 1-5 (wing, genitalia). Type-locality: Brazil, Guanabara, Rio de Janeiro, Recreio dos Bandeirantes. Distr. — Brazil.
- PRIONOPTERA (Thomson), 1869:590 (*Ephydra*). Type-locality: Argentina, Patagonia. Distr. — Argentina, Chile.
- densa* Cresson, 1931a:105. Type-locality: Chile, Castro.
- VENTELI Oliveira, 1954b:276, fig. 11 (wing). Type-locality: Brazil, Mato Grosso, Bodoquena. Distr. — Brazil.
- ZURCHERI Hendel, 1933b:223. Type-locality: Paraguay, Santa Trinidad. Distr. — Paraguay. Ref. — Hennig, 1943:121, fig. 8 (larva).

## Genus EPHYDRELLA Tonnoir & Malloch

- Ephydra*, subg. EPHYDRELLA Tonnoir & Malloch, 1926:6. Type-species, *Ephydra novaezealandiae* Tonnoir & Malloch (orig. des.).
- FREITASI Oliveira, 1954c:292, figs. 1-6 (wing, female genitalia). Type-locality: Brazil, Mato Grosso, Bodoquena.



## Genus HYDROPYRUS Cresson

HYDROPYRUS Cresson, 1934:216. Type-species, *Ephydra hians* Say (orig. des.).

HIANS (Say), 1830:188 (*Ephydra*). Type-locality: "Mexico". Distr. — Mexico; North America (British Colombia to Minnesota, South to California and Oklahoma).

*crassimana* Loew, 1866:182 (Cent. 6, no. 88) (*Ephydra*). Type-locality: "Mexico".

## Genus SETACERA Cresson

SETACERA Cresson, 1930a:116. Type-species, *Ephydra pacifica* Cresson (orig. des.).

PILICORNIS (Coquillett), 1902:184 (*Ephydra*). Type-locality: U.S.A., Florida, Distr. — Mexico (Tabasco); U.S.A. (Florida).

*knabi* Cresson, 1935:346. Type-locality: U.S.A., Florida, Miami.

## Genus DAGUS Cresson

DAGUS Cresson, 1935:345. Type-species, *Ephydra rostrata* Cresson (orig. des.).

ROSTRATA (Cresson), 1918:66, pl. 2, fig. 27 (head) (*Ephydra*; nom. nov. for *Ephydra pygmaea* Williston). Type-locality: "St. Vincent". Distr. — Mexico, Costa Rica, Brazil, West Indies (Jamaica, Dominica).

*pygmaea* Williston, 1896:402, pl. XIII, fig. 147 (wing, head) (*Ephydra*; preocc. Haliday, 1833). Type-locality: St. Vincent, Perseverance Valley.

## Genus TEICHOMYZA Macquart

TEICHOMYZA Macquart, 1835:534. Type-species, *fusca* Macquart (mon.).

FUSCA Macquart, 1835:535. Type-locality: "France". Distr. — Peru, Chile; Europe. Note: Probably introduced by ship from Europe; series in the U. S. National Museum with note "at light on shipboard"; frequently found in outdoor urinals and excrement.

## Tribe SCATELLINI

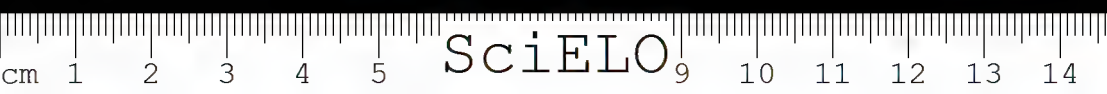
### Genus SCATELLA Robineau-Desvoidy

SCATELLA Robineau-Desvoidy, 1830:801. Type-species, *buccata* Robineau-Desvoidy (Coquillett, 1910:603; Becker's 1896:224 des. of *stagnalis* invalid, not originally included) = *stagnalis* (Fallén).

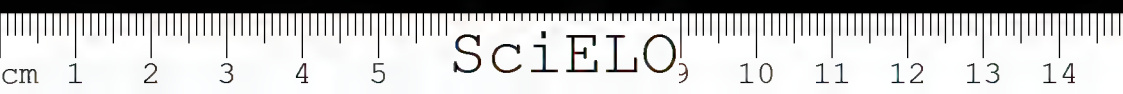
ANGUSTIPENNIS Wirth, 1955:67. Type-locality: Juan Fernandez Islands, Masafuera, Innocentes Bajos. Distr. — Juan Fernandez Islands.

APICALIS Wirth, 1957:406, fig. 1 (wing). Type-locality: Juan Fernandez Islands, Masatierra, Pirámide. Distr. — Juan Fernandez Islands.

ARGENTEA Hendel, 1930b:154. Type-locality: Argentina, Sierra de Córdoba. Distr. — Argentina.



- ARGENTIFACIES Wirth, 1955:64, fig. 12 (wing). Type-locality: Juan Fernandez Islands, Masatierra, Cerro Alto. Distr. — Juan Fernandez Islands.
- BRACHYPTERA Wirth, 1955:68, fig. 9, 20 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masatierra, El Yunque. Distr. — Juan Fernandez Islands.
- BRUNNEA Wirth, 1957:407, fig. 2 (wing). Type-locality: Juan Fernandez Islands, Masatierra, Alto Pangal. Distr. — Juan Fernandez Islands.
- CAUTA Cresson, 1931a:110. Type-locality: Chile, Castro. Distr. — Chile, Argentina.
- DECEMGUTTATA Wirth, 1955:65, figs. 11, 16 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masafuera, La Correspondencia. Distr. — Juan Fernandez Islands.
- DISCALIS Wirth, 1955:61, fig. 5 (wing). Type-locality: Juan Fernandez Islands, Masatierra, El Yunque. Distr. — Juan Fernandez Islands.
- EDWARDSI Cresson, 1931a:111, fig. 21f (wing). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina.
- FAVILLACEA Loew, 1862:170. Type-locality: U.S.A., "Middle States". Distr. — Costa Rica, Ecuador; North America (Saskatchewan to Quebec, south to Texas and Florida).
- nitidifrons* Cresson, 1918:67, pl. 3, fig. 23 (wing). Type-locality: Costa Rica, Cartago.
- FERNANDEZENSIS Wirth, 1955:60, figs. 3, 14 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masatierra, Salsipuedes. Distr. — Juan Fernandez Islands.
- FUSCIVENOSA Wirth, 1957:407, fig. 3 (wing). Type-locality: Juan Fernandez Islands, Masatierra, Corrales de Molina.
- GALAPAGENSIS Curran, 1934b:161. Type-locality: Galápagos Islands, Chatham Island. Distr. — Galápagos Islands.
- GUTTIPENNIS (Bigot), 1888:36, pl. 4, fig. 3 (habitus) (*Palloptera*). Type-locality: Argentina, Tierra del Fuego, Orange Bay. Distr. — Argentina.
- KUSCHELI Wirth, 1955:61, figs. 4, 17 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masafuera, Quebrada de las Casas. Distr. — Juan Fernandez Islands.
- LUTEA Wirth, 1955:59, figs. 2, 18 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masatierra, Salsipuedes. Distr. — Juan Fernandez Islands.
- MARGINALIS Wirth, 1955:61, figs. 1, 15 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masatierra, Miradero de Selkirk. Distr. — Juan Fernandez Islands.
- MASATIERRENSIS Wirth, 1955:64, figs. 13, 21 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masatierra, Alto Inglés. Distr. — Juan Fernandez Islands.
- MINIMA Wirth, 1955:68, fig. 8 (wing). Type-locality: Juan Fernandez Islands, Masatierra, Pie del Yunque. Distr. — Juan Fernandez Islands.
- NANOPTERA Wirth, 1955:67, fig. 10 (wing). Type-locality: Juan Fernandez Islands, Masatierra, Plazoleta del Yunque. Distr. — Juan Fernandez Islands.





- NOTABILIS Cresson, 1934:218. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.
- OBSCURA Williston, 1896:403. Type-locality: "St. Vincent". Distr. — El Salvador, Costa Rica, Panama, Ecuador, Brazil, Paraguay, Chile, West Indies (Bahamas, Puerto Rico, Dominica); U.S.A. (Florida). Ref. — Cresson, 1935:365 (notes).
- laetifica* Cresson, 1934:217. Type-locality: Argentina, Buenos Aires.
- stagnalis* Fallén of authors, Neotropical records. Ref. — Cresson, 1918:66, pl. 3, fig. 22 (wing).
- OBSCURELLA Hendel, 1930b:154. Type-locality: Argentina, Aguarai. Distr. — Argentina, Chile.
- PALLIDA Wirth, 1955:60. Type-locality: Juan Fernandez Islands, Masatierra, Plazoleta del Yunque. Distr. — Juan Fernandez Islands.
- PALUDUM (Meigen), 1830:118 (*Ephydra*). Type-locality: "Europe". Distr. — Mexico, Europe, North America, Africa.
- PILIMANA Wirth, 1955:62, figs. 6, 19 (wing, male genitalia). Type-locality: Juan Fernandez Islands, Masafuera, Inocentes Altos. Distr. — Juan Fernandez Islands.
- PULLA Cresson, 1931a:109. Type-locality: Chile, Castro. Distr. — Chile.
- SANCTIPauli Schiner, 1868:243. Type-locality: St. Paul Island. Distr. — St. Paul Island.
- SKOTTSSBERGI Wirth, 1957:408, fig. 4 (wing). Type-locality: Juan Fernandez Islands, Masafuera, Quebrada de las Casas. Distr. — Juan Fernandez Islands.
- STENOPTERA Wirth, 1955:66. Type-locality: Juan Fernandez Islands, Masatierra, Plazoleta del Yunque. Distr. — Juan Fernandez Islands.
- VITTATA Wirth, 1955:65. Type-locality: Juan Fernandez Islands, Masatierra, Cerro Alto. Distr. — Juan Fernandez Islands.
- VULGATA Cresson, 1931a:108, fig. 21e (wing). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina, Chile.

#### Genus NEOSCATELLA Malloch

- NEOSCATELLA Malloch, 1933:9. Type-species, *atra* Malloch (orig. des.).
- FURENS (Cresson), 1931a:114 (*Scatella*). Type-locality: Chile, Ancud. Distr. — Chile.
- GESTIENS (Cresson), 1931a:111 (*Scatella*). Type-locality: Chile, Ancud. Distr. — Chile.
- GREGARIA (Cresson), 1931a:113, fig. 21g (wing). Type-locality: Argentina, Maquinchao. Distr. — Argentina, Chile.
- IGNARA (Cresson), 1931a:112 (*Scatella*). Type-locality: Chile, Castro. Distr. — Chile, Argentina.

#### Genus PARASCATELLA Cresson

- PARASCATELLA Cresson, 1935:357. Type-species, *Scatella pilifera* Cresson (orig. des.).
- PILIFERA (Cresson), 1931a:114 (*Scatella*). Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina, Chile.

### Genus LAMPROSCATELLA Hendel

LAMPROSCATELLA Hendel, 1917:42. Type-species, *Ephydra sibilans* Haliday (orig. des.).

SIBILANS Haliday of Becker, 1919:204. Ecuador. Doubtful Record.

### Genus LIMNELLIA Malloch

LIMNELLIA Malloch, 1925:331. Type-species, *maculipennis* Malloch (orig. des.).

*Eustigoptera* Cresson, 1930a:126. Type-species, *Notiphila quadrata* Fallén (orig. des.).

*Stictoscatella* Collin, 1930:133. Type-species, *Notiphila quadrata* Fallén (orig. des.).

QUADRATA (Fallén), 1813:255 (*Notiphila*). Type-locality: "Sweden". Distr. — Mexico, Ecuador, Brazil, West Indies (Puerto Rico), Europe, North America.

*stenhammari* Zetterstedt of Becker, 1919:204. Ecuador.

### Genus SYNHOPIOS Lamb

SYNHOPIOS Lamb, 1917:390. Type-species, *sturdeeianus* Lamb (present designation).

NEGLECTUS Lamb, 1917:393. Type-locality: "Falkland Islands". Distr. — Falkland Islands.

STURDEEIANUS Lamb, 1917:390, figs. 2, 3 (head, body). Type-locality: "Falkland Islands". Distr. — Falkland Islands.

### Genus SCATOPHILA Becker

SCATOPHILA Becker, 1896:237. Type-species, *Ephydra caviceps* Stenhammar (orig. des.).

AVIDA Cresson, 1931a:107. Type-locality: Argentina, Viedma. Distr. — Argentina, Uruguay.

CURTIPENNIS Becker, 1905:192. Type-locality: Argentina, Tierra del Fuego, Golfe Saint-Jean, Staten Island. Distr. — Argentina. Position doubtful.

DESPECTA (Haliday), 1839:409 (*Ephydra*). Type-locality: "Europe". Distr. — Mexico, Costa Rica; Europe, North America.

*variabilis* Cresson, 1917b:341. Type-locality: U.S.A., California, Berkeley Hills.

FERNANDEZIANA Wirth, 1955:70. Type-locality: Juan Fernandez Islands, Santa Clara, Corral. Distr. — Juan Fernandez Islands.

MEDIFEMUR Wirth, 1955:68, fig. 7 (wing). Type-locality: Chile, Coquimbo, Incahuasi. Distr. — Chile, Juan Fernandez Islands.

PARVA Cresson, 1935:367. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.

- SICCA Cresson, 1931a:107, fig. 21d (wing). Type-locality: Argentina, Maquinchao. Distr. — Argentina.
- TESCOLA Cresson, 1931a:106, fig. 21c (wing). Type-locality: Argentina, Maquinchao. Distr. — Argentina, Chile.

#### UNPLACED EPHYDRIDAE

- THOMAE Wiedemann, 1830:593 (*Ephydra*). Type-locality: "St. Thomas". Distr. — West Indies (St. Thomas). Sabrosky (in litt.) examined the type which is possibly a *Paralimna* sp.

#### LITERATURE CITED

ALDRICH, J. M.

1912. The biology of some western species of the dipterous genus *Ephydra*. *Jour. New York Ent. Soc.* 20:77-99, 3 pls.

ARNAUD, P. H., JR.

1958. *Cressonomyia* new name for *Plagiopsis* Cresson preoccupied (Diptera: Ephydridae). *Ent. News* 69:24.

BECKER, T.

1896. Dipterologische Studien. IV. Ephydridae. *Berlin. Ent. Ztschr.* 41:91-276, 4 pls.
1903. Aegyptische Dipteren. *Mitt. Zool. Mus. Berlin* 2:67-195, 4 pls.
1905. Diagnose d'un Diptère recueilli par l'expédition antarctique belge. *Ann. Soc. Ent. Belgique* 49:192-193, 1 fig.
1919. Diptères, Brachycères. *Mission du Service géographique de l'Armée. Mesure d'un Arc de Méridien Equatorial en Amérique du Sud* 10(2):163-214, pls. xiv-xvii.
1926. Ephydridae. Fam. 56, pp. 1-48, 65 figs. In E. Lindner, *Die Fliegen der palaearktischen Region* 6(1) Stuttgart.

BIGOT, J. M. F.

1888. Diptères. *Mission Sci. du Cap Horn 1882-1883.* 6(2): 1-45, 4 pls.

BOKERMANN, W. C. A.

1957. Frog eggs parasitized by dipterous larvae. *Herpetologica* 13:231-232.

BRÉTHES J.

1919. Cueillette d'insectes au Rio Blanco. *Rev. Chilena Hist. Nat.* 23:40-44, 3 figs.

BRUNER, S. C.

1951. La mosca del petroleo en Cuba. *Bol. Hist. Nat. Soc. "Felipe Poey"* 2:59.

COLLIN, J. E.

1930. Some new species of the dipterous genus *Scatella* Dsv. and the differentiation of *Stictoscatella* gen. nov. (Ephydridae). *Ent. Monthly Mag.* 66:133-139, 7 figs.

COQUILLET, D. W.

1896. A new subfamily of Ephydridae. *Ent. News* 7:220-221, 1 fig.
1899. Description of a new *Psilopa*. *Canad. Ent.* 31:8.

- 1900a. New genera and species of Ephydriidae. *Canad. Ent.* 32:33-36.  
 1900b. Report on a collection of dipterous insects from Puerto Rico. *Proc. U. S. Nat. Mus.* 22:249-270.  
 1901. Papers from the Hopkins Stanford Galapagos Expedition, 1898-1899. II Entomological Results (2): Diptera. *Proc. Washington Acad. Sci.* 3:371-379.  
 1902. New acalyptrate Diptera from North America. *Jour. New York. Ent. Soc.* 10:177-191.  
 1904. New Diptera from Central America. *Proc. Ent. Soc. Washington* 6:90-98.  
 1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.

CRESSON, E. T., JR.

1914. Descriptions of new genera and species of the dipterous family Ephydriidae. — I. *Ent. News* 25:241-250, 1 pl.  
 — 1915. Descriptions of new genera and species of the dipterous family Ephydriidae. — II. *Ent. News* 26:68-72.  
 1916a. Studies in the American Ephydriidae (Diptera). I. Revision of the species of the genus *Paralimna*. *Trans. Amer. Ent. Soc.* 42:101-124, 1 pl.  
 1916b. Descriptions of new genera and species of the dipterous family Ephydriidae. — III. *Ent. News* 27:147-152.  
 1917a. Studies in the American Ephydriidae (Diptera). II. A revision of the species of the genera *Notiphila* and *Dichaeta*. *Trans. Amer. Ent. Soc.* 43:27-66, 2 pls.  
 1917b. Descriptions of new genera and species of the dipterous family Ephydriidae. IV. *Ent. News* 28:340-341.  
 1918. Costa Rican Diptera collected by Philip P. Calvert, Ph.D., 1909-1910. Paper 3. A report on the Ephydriidae. *Trans. Amer. Ent. Soc.* 44:39-68, 1 pl.  
 1922a. Studies in American Ephydriidae (Diptera). III. A revision of the species of *Gymnopa* and allied genera constituting the subfamily Gymnopinae. *Trans. Amer. Ent. Soc.* 47:325-343, 1 pl.  
 1922b. Descriptions of new genera and species of the dipterous family Ephydriidae. — V. *Ent. News* 33:135-137.  
 1924. Descriptions of new genera and species of the dipterous family Ephydriidae. Paper VI. *Ent. News* 35:159-164.  
 1925. Descriptions of new genera and species of the dipterous family Ephydriidae. — VII. *Ent. News* 36:165-167.  
 1926. Descriptions of new genera and species of Diptera (Ephydriidae and Micropezidae). *Trans. Amer. Ent. Soc.* 52:249-274.  
 1929. Studies in the dipterous family Ephydriidae. Paper II. *Trans. Amer. Ent. Soc.* 55:165-195.  
 1930a. Studies in the Dipterous family Ephydriidae. Paper III. *Trans. Amer. Ent. Soc.* 56:93-131.  
 1930b. Descriptions of new genera and species of the dipterous family Ephydriidae. Paper VIII. *Ent. News* 41:76-81.  
 1931a. *Diptera of Patagonia and South Chile* 6(2) Ephydriidae. p. 85-116, illus.  
 1931b. Descriptions of new genera and species of the dipterous family Ephydriidae. Paper X. *Ent. News* 42:168-170.





1933. Descriptions of new species of the dipterous family Ephydriidae. *Ent. News* 44:65-70.
1934. Descriptions of new genera and species of the dipterous family Ephydriidae. — XI. *Trans. Amer. Ent. Soc.* 60:199-222, 1 pl.
1935. Descriptions of genera and species of the dipterous family Ephydriidae. *Trans. Amer. Ent. Soc.* 61:345-372.
1938. Notes on, and descriptions of, some neotropical Ephydriidae (Dipt.). *Rev. Ent.* 8:24-40.
1939. Descriptions of a new genus and ten new species of Ephydriidae with a discussion of the species of the genus *Discomyza* (Diptera). *Notulae Nat. Acad. Nat. Sci. Philadelphia* 21:1-12.
1940. Descriptions of new genera and species of the dipterous family Ephydriidae. Paper XII. *Notulae Nat. Acad. Nat. Sci. Philadelphia* 38:1-10.
- 1941a. The species of the Neotropical genus *Nostima* (Diptera: Ephydriidae). *Notulae Nat. Acad. Nat. Sci. Philadelphia* 78:1-9, 5 figs.
- 1941b. New genera and species of North American Ephydriidae (Diptera). *Ent. News* 52:35-38.
1942. Synopses of North American Ephydriidae (Diptera). I. The subfamily Psilopinae, with descriptions of new species. *Trans. Amer. Ent. Soc.* 68:101-128.
1943. The species of the tribe Ilytheini (Diptera: Ephydriidae: Notiphilinae). *Trans. Amer. Ent. Soc.* 69:1-16, 2 pls.
1944. Descriptions of new genera and species of the dipterous family Ephydriidae. Paper XIV. *Notulae Nat. Acad. Nat. Sci. Philadelphia* 135:1-9.
1946. A systematic annotated arrangement of the genera and species of the Neotropical Ephydriidae (Diptera) I. The subfamily Psilopinae. *Trans. Amer. Ent. Soc.* 71:129-163.
1947. A systematic annotated arrangement of the genera and species of the Neotropical Ephydriidae (Diptera) II. The subfamily Notiphilinae. *Trans. Amer. Ent. Soc.* 73:35-61.
- CURRAN, C. H.
- 1934a. *The families and genera of North American Diptera*, 512 pp., 235 figs., 2 pls. New York.
- 1934b. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 13. Diptera. *Proc. California Acad. Sci.* (4)21:147-172, 4 figs.
- CURTIS, J.
1937. *A guide to an arrangement of British insects*. Ed. 2, 294 pp. London.
- DE GEER, C.
1776. *Mémoires pour servir à l'histoire des Insectes* 6:523 pp., 30 pls. Stockholm.
- EDWARDS, F. W.
1933. *Diptera of Patagonia and South Chile* 6(3). Ephydriidae (Supplement), Syrphidae, Conopidae. London. pp. 117-175.
- ESSIG, E. O.
1926. *Insects of Western North America*. 1035 pp. New York.

FABRICIUS, J. C.

1805. *Systema antliatorum secundum ordines, genera, species*. 373 pp.,  
+ 30 pp. Brunsvigae.

FALLÉN, C. F.

1810. *Specim. entomolog. novam Diptera disponendi methodum exhibens*. 26 pp., 1 pl. Lund.  
1813. Beskrifning öfver några i Sverige funna vattenflugor (Hydromyzides). *K. Vetensk. Acad. Handl.* (ser. 3), 1813:240-257.  
1820. *Oscinides Sveciae*. 10 pp. Lundae.  
1823. *Hydromyzides Sveciae*. 12 pp. Lundae.

GRIGARICK, A. A.

1959. Bionomics of the rice leaf miner, *Hydrellia griseola* (Fallén) in California (Diptera: Ephydriidae). *Hilgardia* 29:1-80.

HALIDAY, A. H.

1833. Catalogue of Diptera occurring about Holywood in Downshire. *Ent. Mag.* (London) 1:147-180.  
1839. Remarks on the generic distribution of the British Hydromyzidae (Diptera). *Ann Nat. Hist.* 3:217-224, 401-411.

HENDEL, F.

- 1914a. Neue amerikanische Dipteren. 2. Beitrag. *Deut. Ent. Ztschr.* 1914:151-176, 16 figs.  
1914b. H. Sauter's Formosa Ausbeute. Acalyptrate Musciden (Dipt.) III. *Suppl. Ent.* 3:90-117.  
1917. Beiträge zur Kenntnis der acalyptraten Musciden. *Deut. Ent. Ztschr.* 1917:33-47, 3 figs.  
1930a. Eine neue interessante Ephydridengattung (Dipt.). *Konowia* 9:66-70, figs.  
1930b. Die Ausbeute der deutschen Chaco-Expedition 1925-26. Diptera. XIX. Ephydriidae. *Konowia* 9:127-155.  
1931. Neue ägyptische Dipteren aus der Gruppe der acalyptraten Musciden, gesammelt von Prof. Efflatoun Bey. *Bull. Soc. Roy. Ent. d'Egypte* 15:59-73, 1 fig.  
1933a. Ueber einige Typen Wiedemann's und Schiner's von acalyptraten Musciden aus Südamerika, nebst einigen verwandten Arten (Dipt.). *Rev. de Ent.* 3:58-83, 1 fig.  
1933b. Von Dr. Zürcher in den Jahren 1913-1918 in Paraguay gesammelte acalyptrate Dipteren. *Rev. de Ent.* 3:213-224.  
1936. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny. X. Teil. Diptera: Muscidae Acalyptratae (excl. Chloropidae). *Ann Naturhist. Mus. Wien* 47:61-106, 5 figs.

HENNIG, W.

1943. Übersicht über die bisher bekannten Metamorphosestadien der Ephyriden, mit Neubeschreibungen nach dem material der Deutschen Limnologischen Sundaexpedition (Diptera: Ephydriidae). *Arb. über Morph. Tax. Ent.* 10:105-138, 18 figs., 2 pls.  
1952. *Die Larvenformen der Dipteren*. 3. Teil. Berlin, 628 pp., 338 figs., 21 pls.

JONES, B. J.

1906. Catalogue of the Ephydridae, with bibliography and description of new species. *Univ. California Pubs. Ent.* 1:153-198, 4 figs., 1 pl.

LAMB, C. G.

1917. Falkland Islands Diptera. *Trans. Ent. Soc. London* 1916: 387-394, 3 figs.

LATREILLE, P. A.

1802. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes*, Tome troisième, 468 pp. In Sonnini, C. S., ed., *Histoire naturelle par Buffon*. Paris.
1804. Tableau méthodique des Insectes. pp. 129-200. In *Tableaux méthodiques d'histoire naturelle*. 238 pp., 5 pls. Paris.
1805. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes*, Tome quatorzième, 432 pp., pls. 104-112. In Sonnini, C. S., ed. *Histoire naturelle par Buffon*. Paris.
1810. *Considérations générales sur l'ordre naturel des animaux*. 444 pp. Paris.

LOEW, H.

1860. Neue Beiträge zur Kenntniss der Dipteren. Die Europaeischen Ephydrinidae. Siebenter Beitrag. *K. Realschule zu Meseritz, Programm* 1860:1-46.
1861. Diptera Americae septentrionalis indigena. Centuria prima. *Berlin. Ent. Ztschr.* 5:307-359.
1862. Monographs of the Diptera of North America. Part. I. Smithsonian Inst., *Smithsonian Misc. Collect.* 6 (publ. 141): 1-221, 15 figs., 2 pls.
1866. Diptera Americae septentrionalis indigena. Centuria sexta. *Berlin. Ent. Ztschr.* (1865) 9:127-186.
1869. Diptera Americae septentrionalis indigena. Centuria octava. *Berlin. Ent. Ztschr.* 13:1-52.
1878. Neue nordamerikanischen Ephydriden. *Ztschr. f. Gesam. Naturw.* 51:192-203.

MACQUART, J.

1835. *Histoire naturelle des Insectes. Diptères*, Tome deuxième. 703 pp., 12 pls. Paris.
1850. Diptères exotiques nouveaux ou peu connus. 4e supplément. *Mém. Soc. Sci. Agr. Arts Lille* 1849:309-479, pls. 1-14.

MALLOCH, J. R.

1925. Notes on Australian Diptera. No VII. *Proc. Linn. Soc. New South Wales* 50:311-340, 23 figs.
1933. Some acalyptrate Diptera from the Marquesas Islands. *Bernice P. Bishop Mus. Bull.* 114:1-31, 9 figs.

MEIGEN, J. W.

1830. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten* 6:401 pp., pls. 55-66.

MARTIN, A. C. & F. M. UHLER

1939. Food of game ducks in the United States and Canada. U. S. Dept. Agr. Tech. Bull. 634, 156 pp., pls.

OLIVEIRA, S. J. DE

1954a. Contribuição para o conhecimento do gênero "*Dimecoenia*" Cresson 1916. I. "*Dimecoenia lenti*" n. sp. encontrada no Chile (Diptera, Ephydriidae). *Rev. Brasil. Biol.* 14:187-194, 19 figs.

1954b. Contribuição para o conhecimento do gênero "*Dimecoenia*" Cresson 1916. II. Sobre 3 espécies novas do Brasil (Diptera: Ephydriidae). *Rev. Brasil. Biol.* 14:269-278, 6 figs.

1954c. Sobre a presença do gênero "*Ephydrella*" Tonnoir & Malloch, 1926, na região neotrópica, com descrição de uma nova espécie (Diptera: Ephydriidae). *Rev. Brasil. Biol.* 14:291-294, 6 figs.

1957. Contribuição para o conhecimento do gênero "*Dimecoenia*" Cresson, 1916. III. Sobre uma espécie nova do Estado de São Paulo, Brasil (Diptera, Ephydriidae). *Rev. Brasil. Biol.* 17:305-308, 8 figs.

1958. Contribuição para o conhecimento do gênero "*Dimecoenia*" Cresson, 1916. IV. Descrição da larva e do pupário de "*Dimecoenia grumanni*" Oliveira, 1954 (Diptera, Ephydriidae). *Rev. Brasil. Biol.* 18:167-169, 4 figs.

PACKARD, A. S.

1871. On insects inhabiting salt water. No. 2. *Amer. Jour. Sci. and Arts* (3)1 [= whole ser., 101]: 100-110, 5 figs.

ROBINEAU-DESVOIDY, J. B.

1830. Essai sur les Myodaires. *Mém. Sci. Math. Phys. Acad. Roy. Sci., Inst. de France*, ser. 2, 2:1-813.

RONDANI, C.

1868. Diptera Italica non vel minus cognita descripta vel annotata observationibus nonnullis additis. Fasc. III. *Atti Soc. Ital. Sci. Nat.* 11:21-54.

ROOTH, J.

1965. The flamingos on Bonaire (Netherlands Antilles). Habitat, diet, and reproduction of *Phoenicopterus ruber ruber*. *Natuurwet. Stud. v. Suriname Ned. Antillen*, no. 41:151 pp., 20 pls.

SABROSKY, C. W. & WIRTH, W. W.

1958. A Formosan ephydrid new to Hawaii (Diptera: Ephydriidae). *Notulae Ent.* 38:109-110.

SAY, T.

1830. Descriptions of North American dipterous insects. *Jour. Acad. Nat. Sci. Philadelphia.* 6:183-188.

SCHINER, J. R.

1868. Diptera. 388 pp., 4 pls. In *Reise der österreichischen Fregatte Novarra*. Zool., Vol. 2, abt. 1, Sect. B. Wien.

SÉGUY, E.

1940. Diptères, In *Croisière du Bouganville aux îles australes françaises*. *Mém. Mus. Nat. d'Hist. nat. Paris* (n.s.) 14:203-267, 139 figs.



STENHAMMAR, C.

1844. Försök till gruppering och revision af de svenska Ephydrinae.  
K. Vetensk. Akad. Handl. ser. 3, 1843:75-272, 1 pl.

STURTEVANT, A. H. & M. R. WHEELER

1954. Synopses of Nearctic Ephydridae (Diptera). *Trans. Amer. Ent. Soc.* 79:151-257.

THOMSON, C. G.

1869. 6. Diptera. Species novas descripsit. pp. 443-614, pl. 9. In K. Svenska Vetenskaps Akademie, *Kongliga svenska fregatten Eugénies resa omkring jorden*. Pt. 2: Zoologie, sec. 1: Insekter, 617 pp., 9 pls. Stockholm.

THORPE, W. H.

1930. The biology of the petroleum fly (*Psilopa petrolii* Coq.). *Trans. Ent. Soc. London* 78:331-344, 4 figs., 2 pls.  
1931. The biology of the petroleum fly. *Science* (n. ser.) 73:101-103.

TONNØR, A. L. & J. R. MALLOCH

1926. New Zealand Muscidae Acalyptratae. Part I. — Ephydridae.  
*Rec. Canterbury Mus.* 3:1-18, 2 pls.

WALKER, F.

1856. Diptera. Vol. 1:1-474, 8 pls. In Saunders, W. W., ed., *Insecta Saundersiana*. London.

WESTWOOD, J. O.

1840. Order XIII. Diptera Aristotle (Antliata Fabricius. Halteriptera Clairv.). In *Synopsis of the genera of British insects*, 158 pp.

WHEELER, W. M.

1896. The genus *Ochthera*. *Ent. News* 7:121-123, 2 figs.

WIEDEMANN, C. R. W.

1824. *Munus rectoris in Academia Christiana Albertina aditurus analecta entomologica ex Museo Regio Havniensi*. 60 pp., Kiliae.  
1830. *Aussereuropäische zweiflügelige Insekten*. Vol. 2, xii + 684 pp., 5 pls. Hamm.

WILLISTON, S. W.

1896. On the Diptera of St. Vincent (West Indies). *Trans Ent. Soc. London* 1896:253-446, 7 pls.  
1897. Diptera Brasiliana. Part IV. *Kansas Univ. Quart. ser. A*, 6:1-12.

WIRTH, W. W.

1955. Los insectos de las Islas Juan Fernandez. 20. Ephydridae (Diptera). *Rev. Chilena Ent.* 4:51-72, 21 figs.  
1956. The Ephydridae (Diptera) of the Bahama Islands. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 1817:1-20, 2 figs.  
1957. Los Insectos de las Juan Fernandez. 33. Ephydridae (Diptera). (Supplementary Report). *Rev. Chilena Ent.* 5:403-408, 4 figs.  
1958. A review of the genus *Gastrops* Williston, with descriptions of two new species (Diptera, Ephydridae). *Proc. Ent. Soc. Washington* 60:247-250.

1964. A revision of the shore flies of the genus *Brachydeutera* Loew. (Diptera: Ephydriidae). *Ann. Ent. Soc. Amer.* 57:3-12, 20 figs. In Press. The genus *Typosilopa* in the Western Hemisphere (Diptera, Ephydriidae). *Proc. Ent. Soc. Washington*.

WOLCOTT, G. N.

1951. The insects of Puerto Rico. *Jour. Agr. Univ. Puerto Rico* 32:417-748.

WOLCOTT, G. N. & L. F. MARTORELL

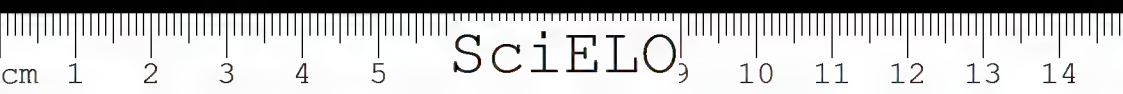
1937. Two insects new to Puerto Rico; the lycid beetle, *Thonalmus chevrolati* Bougeois and the ephydrid fly, *Ephydra gracilis* Packard. *Jour. Agr. Univ. Puerto Rico* 21:535-538.

WULP, F. M. VAN DER

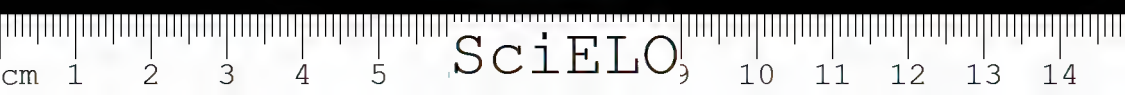
1883. Amerikaansche Diptera. *Tijdschr. v. Ent.* 26:1-60, pls. 1-2.

## INDEX

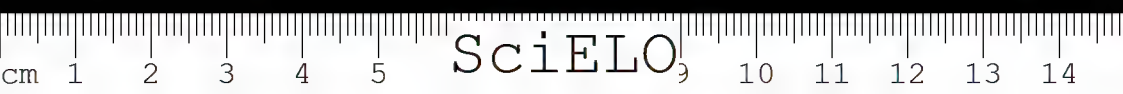
|   |       |
|---|-------|
| abbreviata Cresson, 1941, Nostima .....                       | 77.16 |
| abdominalis (Williston), 1896 (Hecamede), Pseudohecamede .... | 77.5  |
| abrupta Cresson, 1935, Dimecoenia .....                       | 77.23 |
| aciculata (Loew), 1862 (Psilopa), Cressonomyia .....          | 77.11 |
| adjuncta Cresson, 1925, Ceropsilopa .....                     | 77.10 |
| aeneus (Cresson), 1918 (Discocerina), Pectinifer .....        | 77.9  |
| agens Cresson, 1924, Polytrichophora .....                    | 77.8  |
| Agrolimna Cresson, 1917 .....                                 | 77.14 |
| alboclavata Bigot, 1888, Notiphila .....                      | 77.14 |
| Alocatissa Hendel, 1930 .....                                 | 77.4  |
| Allotrichoma Becker, 1896 .....                               | 77.5  |
| Alocatissa Hendel, 1930 .....                                 | 77.4  |
| americanum Cresson, 1940, Clanoneurum .....                   | 77.12 |
| ancudensis Cresson, 1931, Notiphila .....                     | 77.13 |
| angustata Cresson, 1934, Lytogaster .....                     | 77.19 |
| angustifacies Hendel, 1930, Stenochthera .....                | 77.21 |
| angustipennis Wirth, 1955, Scatella .....                     | 77.24 |
| anomala Cresson, 1944, Diphuia .....                          | 77.5  |
| apicalis Wirth, 1957, Scatella .....                          | 77.24 |
| appendiculata Loew, 1862, Paralimna (not Neotropical) .....   | 77.14 |
| aracataca Cresson, 1940, Discocerina .....                    | 77.7  |
| argentata authors, Brachydeutera (not Neotropical) .....      | 77.20 |
| argentea Hendel, 1930, Scatella .....                         | 77.24 |
| argentifacies Wirth, 1955, Scatella .....                     | 77.25 |
| argyrostoma Cresson, 1916, Paralimna .....                    | 77.14 |
| argyrostoma (Hendel), 1930 (Ilythea), Zeros .....             | 77.18 |
| aspistes Hendel, 1914, Peltopsilopa .....                     | 77.12 |
| Athyroglossa Loew, 1860 .....                                 | 77.3  |
| Atissa Haliday, 1837 .....                                    | 77.4  |
| Atissiella Cresson, 1918 .....                                | 77.4  |
| Atissini .....  | 77.4  |
| atara (Loew), 1862 (Psilopa), Typopsilopa .....               | 77.12 |
| atra (Williston), 1896 (Ochtheroidea), Athyroglossa .....     | 77.3  |



|   |       |
|---|-------|
| atrimana (Loew), 1878 (Psilopa), Leptopsilopa .....           | 77.10 |
| aureola Cresson, 1931, Parydra .....                          | 77.22 |
| auropunctatus Hendel, 1930, Gastrops .....                    | 77.19 |
| avida Cresson, 1931, Scatophila .....                         | 77.27 |
|   |       |
| bahamensis Wirth, 1956, Paraglenanthe .....                   | 77.6  |
| baia Cresson, 1931, Ochthera .....                            | 77.20 |
| balioptera Loew, 1862, Discomyza .....                        | 77.12 |
| balsamae (Cresson), 1930 (Ditrichophora), Discocerina .....   | 77.7  |
| barrosi Brèthes, 1919, Athyroglossa .....                     | 77.3  |
| basalis (Cresson), 1914 (Philygria), Nostima .....            | 77.17 |
| Basila Cresson, 1942 .....                                    | 77.7  |
| Batula Cresson, 1940 .....                                    | 77.10 |
| Beckeriella Williston, 1897 .....                             | 77.20 |
| bellula Williston, 1896, Notiphila .....                      | 77.13 |
| bicolor Wirth, 1956, Paraglenanthe .....                      | 77.6  |
| bisetulosa (Cresson), 1939 (Ditrichophora), Discocerina ..... | 77.7  |
| bispinosa (Fabricius), 1805 (Scatophaga), Beckeriella .....   | 77.20 |
| bispinosa (Thomson), 1869 (Ephydra), Beckeriella .....        | 77.20 |
| bistriata Hendel, 1930, Paralimna .....                       | 77.15 |
| borinqueni Cresson, 1930, Polytrichophora .....               | 77.8  |
| Brachydeutera Loew, 1862 .....                                | 77.20 |
| brachyptera Wirth, 1955, Scatella .....                       | 77.25 |
| brasiliensis Cresson, 1938, Hecamede .....                    | 77.5  |
| brasiliensis Walker, 1856, Notiphila .....                    | 77.14 |
| brunnea Wirth, 1957, Scatella .....                           | 77.25 |
| brunneiceps Cresson, 1916, Paralimna .....                    | 77.15 |
|   |       |
| caeruleiventris (Loew), 1862 (Psilopa), Rhysophora .....      | 77.12 |
| caeruleovittata Hendel, 1930, Stenochthera .....              | 77.21 |
| caesia (Wulp), 1883 (Ephydra), Dimecoenia .....               | 77.23 |
| calverti Cresson, 1918, Hydrellia .....                       | 77.13 |
| calverti (Cresson), 1914 (Philygria), Nostima .....           | 77.17 |
| calverti (Cresson), 1918 (Ilythea), Zeros .....               | 77.18 |
| canens Cresson, 1941, Nostima .....                           | 77.16 |
| caniceps Cresson, 1918, Ilythea .....                         | 77.17 |
| capax Cresson, 1938, Hydrochasma .....                        | 77.8  |
| captiosa Cresson, 1916, Paralimna .....                       | 77.15 |
| carrerai Oliveira, 1957, Dimecoenia .....                     | 77.23 |
| cauta Cresson, 1931, Scatella .....                           | 77.25 |
| centralis (Cresson), 1918 (Ochtheroidea), Athyroglossa .....  | 77.3  |
| ceraceps (Cresson), 1938 (Hecamedoides), Hydrochasma .....    | 77.8  |
| Cerometopon, error .....                                      | 77.3  |
| Cerometopum Cresson, 1914 .....                               | 77.3  |
| Ceropsilopa Cresson, 1917 .....                               | 77.10 |
| certa Cresson, 1931, Hyadina .....                            | 77.18 |
| chalybea Hendel, 1930, Discocerina .....                      | 77.7  |
| chilensis (Macquart), 1850 (Ephydra), Dimecoenia .....        | 77.23 |
| ciliata Cresson, 1916, Paralimna .....                        | 77.15 |
| ciliifera Hendel, 1930, Paralimna .....                       | 77.15 |
| ciligena (Rondani), 1868 (Ephydra), Parydra .....             | 77.22 |
| cinerea Jones, 1906, Ephydra .....                            | 77.22 |
| Clanoneurum Becker, 1903 .....                                | 77.12 |
| Clasiopa Stenhammar, 1844 .....                               | 77.6  |

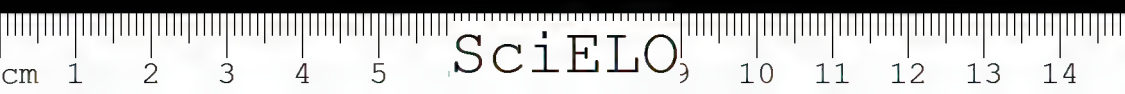


|  |       |
|--|-------|
| Clasiopella Hendel, 1914 .....                                 | 77.11 |
| coltaensis Cresson, 1935, Dimecoenia .....                     | 77.23 |
| coquillettii Cresson, 1922, Ceropsilopa .....                  | 77.11 |
| costalis Walker, 1856, Notiphila .....                         | 77.14 |
| costalis Wirth, 1956, Ceropsilopa .....                        | 77.11 |
| crassimana (Loew), 1866 (Ephydra), Hydropyrus .....            | 77.24 |
| cressoni Edwards, 1933, Ilythea .....                          | 77.18 |
| Cressonomyia Arnaud, 1958 .....                                | 77.11 |
| cuprilineata Wheeler, 1896, Ochthera .....                     | 77.21 |
| cuprilineata Williston, 1896, Ochthera .....                   | 77.21 |
| curtipennis Becker, 1905, Scatophila .....                     | 77.27 |
| Dagus Cresson, 1935 .....                                      | 77.24 |
| decemguttata Wirth, 1955, Scatella .....                       | 77.25 |
| deciapiens Loew, 1878, Paralimna .....                         | 77.16 |
| decorata Williston, 1896, Notiphila .....                      | 77.14 |
| densa Cresson, 1931, Dimecoenia .....                          | 77.23 |
| densepilosa (Hendel), 1930 (Ephydra), Dimecoenia .....         | 77.23 |
| desmata Williston, 1896, Psilopa .....                         | 77.9  |
| despecta (Haliday), 1839 (Ephydra), Scatophila .....           | 77.27 |
| Dimecoenia Cresson, 1916 .....                                 | 77.23 |
| Diphuia Cresson, 1944 .....                                    | 77.5  |
| discalis Wirth, 1955, Scatella .....                           | 77.25 |
| Discocerina Macquart, 1835 .....                               | 77.6  |
| Discocerinini .....  | 77.6  |
| Discomyza Meigen, 1830 .....                                   | 77.12 |
| Discomyzini .....  | 77.12 |
| dispar Cresson, 1922, Ceropsilopa .....                        | 77.11 |
| dubia (Williston), 1896 (Discomyza), Athyroglossa .....        | 77.3  |
| dupla Cresson, 1940, Psilopa .....                             | 77.9  |
| edwardsi Cresson, 1931, Scatella .....                         | 77.25 |
| elegantula Hendel, 1930, Nostima .....                         | 77.16 |
| enigma Coquillett, 1900, Ptilomyia .....                       | 77.4  |
| Ephydra Fallén, 1810 .....                                     | 77.22 |
| Ephydrella Tonnoir & Malloch, 1926 .....                       | 77.23 |
| Ephydrinae .....   | 77.22 |
| Ephydrini .....  | 77.22 |
| erythrocerata Loew, 1878, Notiphila .....                      | 77.13 |
| Eustigoptera Cresson, 1930 .....                               | 77.27 |
| exotica Wiedemann, 1830, Notiphila .....                       | 77.14 |
| faciale (Williston), 1896 (Discocerina), Hydrochasma .....     | 77.8  |
| facialis Cresson, 1917, Notiphila .....                        | 77.14 |
| facialis (Hendel), 1933 (Lamproclasiopa), Discocerina .....    | 77.7  |
| facialis Hendel, 1936, Pseudohecamele .....                    | 77.5  |
| fascipennis (Cresson), 1918 (Ochtheroidea), Athyroglossa ..... | 77.3  |
| favillacea Loew, 1862, Scatella .....                          | 77.25 |
| fenestralis (Cresson), 1918 (Ilythea), Zeros .....             | 77.18 |
| fernandezensis Wirth, 1955, Scatella .....                     | 77.25 |
| fernandeziana Wirth, 1955, Scatophila .....                    | 77.27 |
| flavida Cresson, 1947, Nostima .....                           | 77.17 |
| flavifrons Hendel, 1930, Discocerina .....                     | 77.6  |

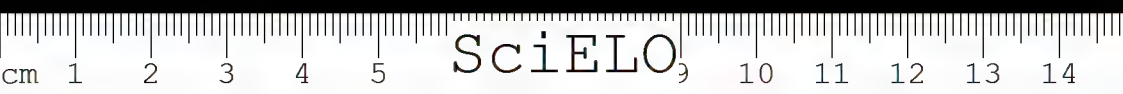




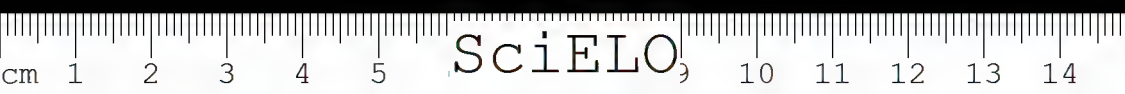
|  |       |
|--|-------|
| flavipes Cresson, 1941, Discocerina .....                        | 77.6  |
| flavipes (Hendel), 1930 (Napaea), Parydra .....                  | 77.22 |
| flavipes (Sturtevant & Wheeler), 1954 (Hyadina), Lytogaster .... | 77.19 |
| flavipes (Williston), 1896 (?Ilythea), Zeros .....               | 77.18 |
| flavipes Wirth, 1958, Gastrops .....                             | 77.19 |
| flavitaris Cresson, 1916, Typopsilopa .....                      | 77.13 |
| flexineuris Cresson, 1916, Paralimna .....                       | 77.15 |
| fossarum authors, Parydra .....                                  | 77.22 |
| freitasi Oliveira, 1954, Ephydrella .....                        | 77.23 |
| frontalis Coquillett, 1904, Notiphila .....                      | 77.14 |
| fulvimana Cresson, 1917, Notiphila .....                         | 77.14 |
| fumipennis Wirth, 1955, Discocerina .....                        | 77.7  |
| furcata (Coquillett), 1902 (Dichaeta), Notiphila .....           | 77.14 |
| furens (Cresson), 1931 (Scatella), Neoscatella .....             | 77.26 |
| fusca Cresson, 1931, Ilythea .....                               | 77.18 |
| fusca Macquart, 1835, Teichomyza .....                           | 77.24 |
| fuscivenosa Wirth, 1957, Scatella .....                          | 77.25 |
| fuscivenosus Wirth, 1958, Gastrops .....                         | 77.19 |
| galapagensis Curran, 1934, Scatella .....                        | 77.25 |
| Gastrops Williston, 1897 .....                                   | 77.19 |
| gestiens (Cresson), 1931 (Scatella), Neoscatella .....           | 77.26 |
| gilvipes (Coquillett), 1901 (Ephydra), Dimecoenia .....          | 77.23 |
| gilvipes (Coquillett), 1900 (Hidrellia), Nostima .....           | 77.17 |
| giovannolii Wirth, 1956, Nostima .....                           | 77.17 |
| glaphyropus Loew, 1878, Athyroglossa .....                       | 77.3  |
| Glenanthe Haliday, 1839 .....                                    | 77.6  |
| gracilis Packard, 1871, Ephydra .....                            | 77.22 |
| granulosa authors, Athyroglossa .....                            | 77.3  |
| granulosa Cresson, 1914, Lytogaster .....                        | 77.19 |
| gregaria (Cresson), 1931 (Scatella), Neoscatella .....           | 77.26 |
| griseola authors, Hydrellia .....                                | 77.13 |
| grumanni Oliveira, 1954, Dimecoenia .....                        | 77.23 |
| guttipennis (Bigot), 1888 (Palloptera), Scatella .....           | 77.25 |
| Guttipsilopa Wirth, 1956 .....                                   | 77.8  |
| Gymnopa Fallén, 1820 .....                                       | 77.2  |
| Gymnopini .....  | 77.2  |
| haydeni Wirth, 1956, Guttipsilopa .....                          | 77.8  |
| Hecamede Haliday, 1837 .....                                     | 77.5  |
| Helaeomyia Cresson, 1941 .....                                   | 77.10 |
| hendeli Wirth, nom. nov., Discocerina .....                      | 77.7  |
| hians (Say), 1830 (Ephydra), Hydropyrus .....                    | 77.24 |
| hinei (Cresson), 1922 (Plagiops), Cressonomyia .....             | 77.11 |
| horni Hendel, 1930, Nannodastia .....                            | 77.5  |
| humeralis, error, Parydra .....                                  | 77.22 |
| humilis Williston, 1897, Ochthera .....                          | 77.21 |
| humilis Williston, 1897, Parydra .....                           | 77.22 |
| Hyadina Haliday, 1839 .....                                      | 77.18 |
| Hyadinini .....  | 77.18 |
| Hydrellia Robineau-Desvoidy, 1830 .....                          | 77.13 |
| Hydrelliini .....  | 77.13 |
| Hydrina, authors .....   | 77.16 |
| Hydrina Robineau-Desvoidy, 1830 .....                            | 77.18 |



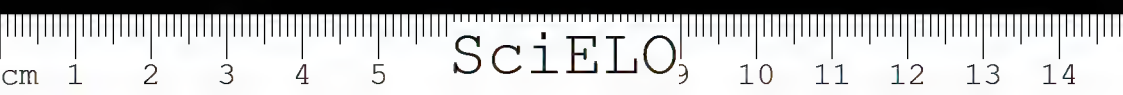
|   |       |
|---|-------|
| Hydrochasma Hendel, 1936 .....  | 77.8  |
| Hydropyrus Cresson, 1934 .....  | 77.24 |
| <i>hypoleuca</i> authors, Hydrellia .....                             | 77.13 |
| ignara (Cresson), 1931 (Scatella), Neoscatella .....                  | 77.26 |
| Ilythea Haliday, 1839 .....   | 77.17 |
| Ilytheini .....   | 77.17 |
| ilytheoides Cresson, 1941, Nostima .....                              | 77.17 |
| immaculata Becker, 1919, Hyadina .....                                | 77.18 |
| <i>immaculata</i> Cresson, 1918, Nostima .....                        | 77.17 |
| incisum (Coquillett), 1902 (Discocerina), Hydrochasma .....           | 77.8  |
| <i>intensa</i> (Cresson), 1931 (Hydrina), Philygria .....             | 77.16 |
| <i>knabi</i> Cresson, 1935, Setacera .....                            | 77.24 |
| kuscheli Wirth, 1955, Scatella .....                                  | 77.25 |
| lacunosum Cresson, 1925, Cerometopum .....                            | 77.3  |
| <i>laetifica</i> Cresson, 1934, Scatella .....                        | 77.26 |
| laevis (Cresson), 1918 (Ochtheroidea), Athyroglossa .....             | 77.3  |
| Lamproclasiopa Hendel, 1933 .....                                     | 77.7  |
| Lamproscatella Hendel, 1917 .....                                     | 77.27 |
| lauta Wheeler, 1896, Ochthera .....                                   | 77.21 |
| lenti Oliveira, 1954, Dimecoenia .....                                | 77.23 |
| Leptopsilopa Cresson, 1922 .....                                      | 77.9  |
| leucoproctum (Loew), 1861 (Discocerina), Hydrochasma .....            | 77.8  |
| Limnelli Malloch, 1925 .....  | 77.27 |
| lindneri (Hendel), 1930 (Alocatissa), Ptilomyia .....                 | 77.4  |
| lineanota Cresson, 1922, Leptopsilopa .....                           | 77.10 |
| Lipochaeta Coquillett, 1896 .....                                     | 77.22 |
| Lipochaetini .....  | 77.22 |
| litorea Cresson, 1925, Glenanthe .....                                | 77.6  |
| lobiochaeta Sturtevant & Wheeler, 1954, Ptilomyia .....               | 77.4  |
| longipennis (Hendel), 1930 (Hyadina), Philygria .....                 | 77.16 |
| <i>longirostre</i> (Hendel), 1930 (Allotrichoma), Pseudohecamede .... | 77.5  |
| lopesi Oliveira, 1954, Dimecoenia .....                               | 77.23 |
| loreta Cresson, 1931, Ochthera .....                                  | 77.21 |
| <i>luctans</i> Cresson, 1933, Paralimna .....                         | 77.15 |
| lutea Wirth, 1955, Scatella .....                                     | 77.25 |
| luteipes Cresson, 1944, Atissa .....                                  | 77.4  |
| Lytogaster Becker, 1896 .....   | 77.19 |
| mabelae (Cresson), 1926 (Atissiella), Ptilomyia .....                 | 77.4  |
| maculipennis (Wiedemann), 1824 (Notiphila), Discomyza .....           | 77.12 |
| magnicornis Cresson, 1934, Beckeriella .....                          | 77.20 |
| mantis (De Geer), 1776 (Musca), Ochthera .....                        | 77.21 |
| marginalis Wirth, 1955, Scatella .....                                | 77.25 |
| masatierrensis Wirth, 1955, Scatella .....                            | 77.25 |
| medifemur Wirth, 1955, Scatophila .....                               | 77.27 |
| mellipes (Coquillett), 1900 (Psilopa), Ceropsilopa .....              | 77.11 |
| meridionalis (Cresson), 1918 (Psilopa), Cressonomyia .....            | 77.11 |
| meridionalis Cresson, 1916, Paralimna .....                           | 77.15 |
| <i>metallica</i> (Schiner), 1868 (Ephygrobia), Cressonomyia .....     | 77.11 |
| metallina (Becker), 1919 (Psilopa), Leptopsilopa .....                | 77.10 |



|   |              |
|---|--------------|
| metatarsata (Cresson), 1939 (Clasiopella), Helaeomyia .....       | 77.10        |
| mexicana Cresson, 1934, Ephydra .....                             | 77.22        |
| <i>Mimapsilopa</i> Cresson, 1941 .....                            | 77.10        |
| mimula Cresson, 1931, Atissa .....                                | 77.4         |
| minima Wirth, 1955, Scatella .....                                | 77.25        |
| molossus Schiner, 1868, Paralimna .....                           | 77.15        |
| mosilloides Cresson, 1914, Cerometopum .....                      | 77.4         |
| Mosillus Latreille, 1804 .....                                    | 77.2         |
| multipunctata Williston, 1896, Paralimna .....                    | 77.15        |
| nana Williston, 1896, Discocerina .....                           | 77.7         |
| Nannodastia Hendel, 1930 .....                                    | 77.5         |
| nanoptera Wirth, 1955, Scatella .....                             | 77.25        |
| <i>Napaea</i> Robineau-Desvoidy, 1830 .....                       | 77.21        |
| <i>nasalis</i> Hendel, 1936, Pseudohecamele .....                 | 77.5         |
| <i>nasalis</i> Wirth, 1956, Diphuia .....                         | 77.5         |
| <i>nasuta</i> Cresson, 1917, Ceropsilopa .....                    | 77.11        |
| neglectus Lamb, 1917, Synhoplos .....                             | 77.27        |
| nemorosus (Cresson), 1914 (Psilephydra), Physemops .....          | 77.20        |
| Neoscatella Malloch, 1933 .....                                   | 77.26        |
| neotropica Wirth, 1964, Brachydeutera .....                       | 77.20        |
| nepos Cresson, 1918, Discocerina .....                            | 77.6         |
| niger Williston, 1897, Gastrops .....                             | 77.19        |
| nigra (Williston), 1896 (Psilopa), Typopsilopa .....              | 77.13        |
| <i>nigra</i> authors, Helaeomyia .....                            | 77.10        |
| nigricoxa Cresson, 1922, Leptopsilopa .....                       | 77.10        |
| nigricoxa Cresson, 1938, Stenochthera .....                       | 77.21        |
| nigrimana (Williston), 1896 (Psilopa), Leptopsilopa .....         | 77.10        |
| nigripes (Cresson), 1918 (Napaea), Parydra .....                  | 77.22        |
| nigropicta Cresson, 1916, Paralimna .....                         | 77.15        |
| nigropuncta Williston, 1896, Psilopa .....                        | 77.9         |
| nitida Cresson, 1918, Discocerina .....                           | 77.7         |
| nitida Williston, 1896, Athyroglossa .....                        | 77.3         |
| <i>nitida</i> (Williston), 1896 (Hydrina), Nostima .....          | 77.17        |
| <i>nitidifrons</i> authors, Philygria .....                       | 77.16        |
| <i>nitidifrons</i> (Cresson), 1918 (Plagiops), Cressonomyia ..... | 77.11        |
| <i>nitidifrons</i> Cresson, 1918, Scatella .....                  | 77.25        |
| nitidigaster Cresson, 1947, Nostima .....                         | 77.17        |
| <i>nitidiventris</i> Hendel, 1930, Discocerina .....              | 77.7         |
| nitifrons (Williston), 1896 (Hydrina), Philygria .....            | 77.16        |
| niveivenosa Cresson, 1930, Nostima .....                          | 77.17        |
| niveofasciata Cresson, 1947, Nostima .....                        | 77.17        |
| niveoguttata Cresson, 1931, Ilythea .....                         | 77.18        |
| Nostima Coquillett, 1900 .....                                    | 77.16        |
| notabilis Cresson, 1934, Scatella .....                           | 77.28        |
| Notiphila Fallén, 1810 .....                                      | 77.13, 77.14 |
| Notiphilinae .....  | 77.12        |
| Notiphilini .....   | 77.13        |
| nudus (Coquillett), 1902 (Paralimna), Oedenops .....              | 77.16        |
| obscura Williston, 1896, Discocerina .....                        | 77.8         |
| obscura Williston, 1896, Paralimna .....                          | 77.16        |
| obscura Williston, 1896, Scatella .....                           | 77.26        |
| obscuraella (Fallén), 1813 (Notiphila), Discocerina .....         | 77.7         |
| obscuraella Hendel, 1930, Scatella .....                          | 77.26        |
| <i>obscuripes</i> authors, Hydrellia .....                        | 77.13        |



|  |       |
|--|-------|
| obscurus (Cresson), 1918 (Ilythea), Zeros .....                      | 77.18 |
| ochropus (Thomson), 1869 (Ephydra), Parydra .....                    | 77.22 |
| Ochthera Latreille, 1802 .....                                       | 77.20 |
| <i>Ochtheroidea</i> Williston, 1896 .....                            | 77.3  |
| Oedenops Becker, 1903 .....  | 77.16 |
| olga Cresson, 1922, Psilopa .....                                    | 77.9  |
| <i>oscitans</i> authors, Zeros .....                                 | 77.18 |
| osorno Cresson, 1931, Hydrellia .....                                | 77.13 |
|  |       |
| painteri (Cresson), 1930 (Ditrichophora), Discocerina .....          | 77.7  |
| <i>painteri</i> (Cresson), 1931 (Ochthera), Stenochthera .....       | 77.21 |
| pallida Wirth, 1955, Scatella .....                                  | 77.26 |
| pallipes Cresson, 1914, Lytogaster .....                             | 77.19 |
| paludum (Meigen), 1830 (Ephydra), Scatella .....                     | 77.26 |
| Paraglenanthe Wirth, 1956 .....                                      | 77.6  |
| Paralimna Loew, 1862 .....   | 77.14 |
| Parascatella Cresson, 1935 .....                                     | 77.26 |
| <i>Parathyroglossa</i> Hendel, 1931 .....                            | 77.3  |
| Paratissa Coquillett, 1900 .....                                     | 77.9  |
| <i>Parephydra</i> Coquillett, 1902 .....                             | 77.4  |
| <i>parva</i> authors, Discocerina .....                              | 77.7  |
| parva Cresson, 1935, Scatophila .....                                | 77.27 |
| parva (Williston), 1896 (Hydrellia), Ptilomyia .....                 | 77.4  |
| Parydra Stenhammar, 1844 .....                                       | 77.21 |
| Parydrinae .....   | 77.18 |
| Parydrini .....  | 77.21 |
| patens Cresson, 1938, Hydrochasma .....                              | 77.8  |
| pectinata Hendel, 1930, Paralimna .....                              | 77.15 |
| Pectinifer Cresson, 1944 .....                                       | 77.9  |
| Pelignellus Sturtevant & Wheeler, 1954 .....                         | 77.6  |
| Pelinoides Cresson, 1931 .....                                       | 77.19 |
| Peltopsilopa Hendel, 1914 .....                                      | 77.12 |
| pendicornis Cresson, 1934, Beckeriella .....                         | 77.20 |
| petrolei (Coquillett), 1899 (Psilopa), Helaeomyia .....              | 77.10 |
| Phaiosterna Cresson, 1916 .....                                      | 77.16 |
| Philygria Stenhammar, 1844 .....                                     | 77.16 |
| Philygriini .....  | 77.16 |
| <i>Philygriola</i> Hendel, 1917 .....                                | 77.16 |
| Physemops Cresson, 1934 .....  | 77.20 |
| pigra Cresson, 1933, Paralimna .....                                 | 77.15 |
| pilicornis (Coquillett), 1902 (Ephydra), Setacera .....              | 77.24 |
| pilifera (Cresson), 1931 (Scatella), Parascatella .....              | 77.26 |
| pilimana Wirth, 1955, Scatella .....                                 | 77.26 |
| pilosa Cresson, 1926, Ochthera .....                                 | 77.21 |
| <i>Plagiops</i> Cresson, 1918 .....                                  | 77.11 |
| <i>Plagiopsis</i> Cresson, 1934 .....                                | 77.11 |
| pleuralis Wirth, 1956, Paraglenanthe .....                           | 77.6  |
| pleuriseta (Cresson), 1942 (Atissiella), Ptilomyia .....             | 77.4  |
| pleurivittata Cresson, 1916, Paralimna .....                         | 77.15 |
| plumbiceps Cresson, 1916, Paralimna .....                            | 77.15 |
| <i>poecilogastra</i> (Hendel), 1930 (Discocerina), Hydrochasma ..... | 77.8  |
| polita (Edwards), 1933 (Ditrichophora), Discocerina .....            | 77.7  |
| <i>pollinosa</i> (Williston), 1896 (Drosophila), Paratissa .....     | 77.9  |
| Polytrichophora Cresson, 1924 .....                                  | 77.8  |

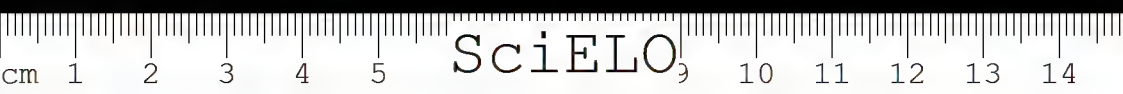


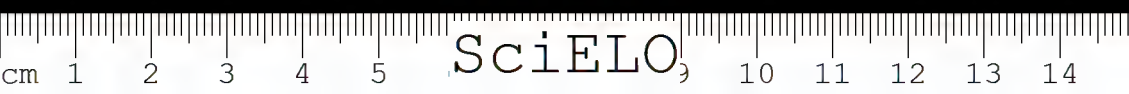


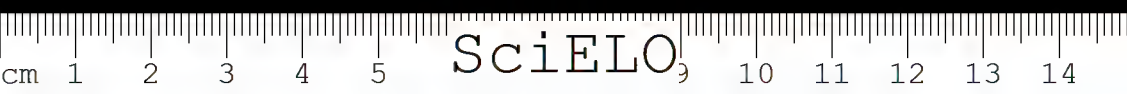
|  |       |
|--|-------|
| <i>porteri</i> Brèthes, 1919, Hyadina .....  | 77.19 |
| <i>pravoneura</i> Hendel, 1930 (Ephydra), Dimecoenia .....                           | 77.23 |
| <i>prionoptera</i> (Thomson), 1869 (Ephydra), Dimecoenia .....                       | 77.23 |
| <i>Pseudohecame</i> Hendel, 1936 .....   | 77.5  |
| <i>Psilopa</i> Fallén, 1823 .....  | 77.9  |
| <i>Psilopinae</i> .....  | 77.2  |
| <i>Psilopini</i> .....   | 77.9  |
| <i>Ptilomyia</i> Coquillett, 1900 .....  | 77.4  |
| <i>puella</i> (Cresson), 1931 (Ditrichophora), Discocerina .....                     | 77.7  |
| <i>pulchra</i> (Cresson), 1918 (Discocerina), Polytrichophora .....                  | 77.8  |
| <i>pulchra</i> (Williston), 1896 (Hydrellia), Nostima .....                          | 77.17 |
| <i>pulchrifrons</i> Williston, 1897, Notiphila .....                                 | 77.14 |
| <i>pulchripes</i> Loew, 1878, <i>Psilopa</i> .....                                   | 77.9  |
| <i>pulla</i> Cresson, 1931, <i>Scatella</i> .....                                    | 77.26 |
| <i>puncticornis</i> Cresson, 1916, <i>Paralimna</i> .....                            | 77.15 |
| <i>punctifera</i> Cresson, 1917, <i>Notiphila</i> .....                              | 77.13 |
| <i>pura</i> Cresson, 1917, <i>Notiphila</i> .....                                    | 77.13 |
| <i>pygmaea</i> (Haliday), 1833 (Ephydra), <i>Atissa</i> .....                        | 77.4  |
| <i>pygmaea</i> (Williston), 1896 (Ephydra), <i>Dagus</i> .....                       | 77.24 |
| <i>quadrata</i> (Fallén), 1813 ( <i>Notiphila</i> ), <i>Limnellingia</i> .....       | 77.24 |
| <i>regalis</i> (Williston), 1897 ( <i>Ochthera</i> ), <i>Stenochthera</i> .....      | 77.21 |
| <i>Rhysophora</i> Cresson, 1924 .....  | 77.12 |
| <i>rostrata</i> (Cresson), 1918 (Ephydra), <i>Dagus</i> .....                        | 77.24 |
| <i>rubricornis</i> Becker, 1919, <i>Notiphila</i> .....                              | 77.14 |
| <i>salubris</i> (Cresson), 1930 ( <i>Allotrichoma</i> ), <i>Pseudohecame</i> .....   | 77.5  |
| <i>sana</i> Cresson, 1931, <i>Discocerina</i> .....                                  | 77.7  |
| <i>sana</i> Cresson, 1929, <i>Paralimna</i> .....                                    | 77.15 |
| <i>sanctipauli</i> Schiner, 1868, <i>Scatella</i> .....                              | 77.26 |
| <i>Scatella</i> Robineau-Desvoidy, 1830 .....  | 77.24 |
| <i>Scatellini</i> .....  | 77.24 |
| <i>Scatophila</i> Becker, 1896 .....   | 77.27 |
| <i>schildi</i> Cresson, 1934, <i>Beckeriella</i> .....                               | 77.20 |
| <i>schildi</i> (Cresson), 1944 ( <i>Psilopa</i> ), <i>Helaeomyia</i> .....           | 77.10 |
| <i>schildi</i> Cresson, 1941, <i>Nostima</i> .....                                   | 77.17 |
| <i>schwarzi</i> Cresson, 1922, <i>Peltopsilopa</i> .....                             | 77.12 |
| <i>secunda</i> Schiner, 1868, <i>Paralimna</i> .....                                 | 77.15 |
| <i>semilutea</i> (Loew), 1869 ( <i>Cacoxenus</i> ), <i>Paratissa</i> .....           | 77.9  |
| <i>sera</i> Cresson, 1933, <i>Paralimna</i> .....                                    | 77.15 |
| <i>Setacera</i> Cresson, 1930 .....  | 77.24 |
| <i>setulosa</i> (Cresson), 1918 ( <i>Discocerina</i> ), <i>Polytrichophora</i> ..... | 77.9  |
| <i>setulosa</i> (Cresson), 1918 ( <i>Atissella</i> ), <i>Ptilomyia</i> .....         | 77.4  |
| <i>sibilans</i> (Haliday), of Becker, <i>Lamproscatella</i> .....                    | 77.27 |
| <i>sicca</i> Cresson, 1931, <i>Scatophila</i> .....                                  | 77.28 |
| <i>similis</i> (Coquillett), 1900 ( <i>Psilopa</i> ), <i>Leptopsilopa</i> .....      | 77.10 |
| <i>similis</i> (Cresson), 1918 ( <i>Ochtheroidea</i> ), <i>Athyroglossa</i> .....    | 77.3  |
| <i>skinneri</i> (Cresson), 1922 ( <i>Psilopa</i> ), <i>Cressonomysia</i> .....       | 77.11 |
| <i>skottsbergi</i> Wirth, 1957, <i>Scatella</i> .....                                | 77.26 |
| <i>slossonae</i> Coquillett, 1896, <i>Lipochaeta</i> .....                           | 77.22 |
| <i>slossonae</i> Coquillett, 1900, <i>Nostima</i> .....                              | 77.17 |
| <i>spilogaster</i> Cresson, 1947, <i>Nostima</i> .....                               | 77.17 |
| <i>spinicornis</i> Cresson, 1918, <i>Hydrellia</i> .....                             | 77.13 |



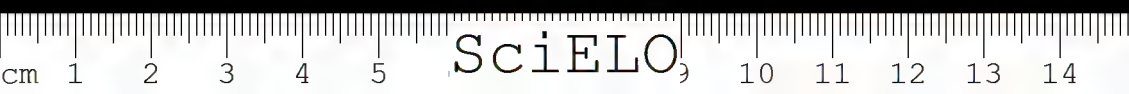
|  |       |
|--|-------|
| <i>staffordi</i> Cresson, 1925, <i>Ceropsilopa</i> .....                         | 77.11 |
| <i>stagnalis</i> authors, <i>Scatella</i> .....                                  | 77.26 |
| <i>stenhammari</i> authors, <i>Limnellia</i> .....                               | 77.27 |
| <i>Stenochthera</i> Hendel, 1930 .....   | 77.21 |
| <i>stenoptera</i> Wirth, 1955, <i>Scatella</i> .....                             | 77.26 |
| <i>sticta</i> Hendel, 1930, <i>Paralimna</i> .....                               | 77.15 |
| <i>Stictoscatella</i> Collin, 1930 .....   | 77.27 |
| <i>striata</i> Williston, 1897, <i>Notiphila</i> .....                           | 77.14 |
| <i>sturdeeanus</i> Lamb, 1917, <i>Synhoplos</i> .....                            | 77.27 |
| <i>subapicalis</i> Cresson, 1922, <i>Leptopsilopa</i> .....                      | 77.10 |
| <i>subnudus</i> Sturtevant & Wheeler, 1954, <i>Pelignellus</i> .....             | 77.6  |
| <i>sulcata</i> (Hendel), 1930 ( <i>Ochtheroidea</i> ), <i>Athyroglossa</i> ..... | 77.3  |
| <i>sulcatus</i> Cresson, 1931, <i>Pelinoides</i> .....                           | 77.19 |
| <i>Synhoplos</i> Lamb, 1917 .....  | 77.27 |
| <i>taurus</i> Cresson, 1916, <i>Paralimna</i> .....                              | 77.15 |
| <i>tectora</i> Cresson, 1926, <i>Athyroglossa</i> .....                          | 77.3  |
| <i>Teichomyza</i> Macquart, 1835 .....   | 77.24 |
| <i>teres</i> Cresson, 1931, <i>Notiphila</i> .....                               | 77.14 |
| <i>tescola</i> Cresson, 1931, <i>Scatophila</i> .....                            | 77.28 |
| <i>texana</i> Cresson, 1915, <i>Paralimna</i> .....                              | 77.15 |
| <i>thomae</i> Wiedemann, 1830, <i>Ephydra</i> .....                              | 77.28 |
| <i>tibialis</i> Cresson, 1917, <i>Hydrellia</i> .....                            | 77.13 |
| <i>tibialis</i> Cresson, 1916, <i>Mosillus</i> .....                             | 77.3  |
| <i>triangulifera</i> Schiner, 1868, <i>Notiphila</i> .....                       | 77.14 |
| <i>trilineata</i> Cresson, 1918, <i>Discocerina</i> .....                        | 77.7  |
| <i>triornata</i> (Cresson), 1926 ( <i>Ochthera</i> ), <i>Stenochthera</i> .....  | 77.21 |
| <i>Typopsilopa</i> Cresson, 1916 .....   | 77.12 |
| <i>Typopsilopini</i> .....   | 17.12 |
| <i>umbrosa</i> (Loew), 1862 ( <i>Psilopa</i> ), <i>Rhysophora</i> .....          | 77.12 |
| <i>uncinata</i> Hendel, 1914, <i>Clasiopella</i> .....                           | 77.11 |
| <i>unctus</i> Cresson, 1934, <i>Pelinoides</i> .....                             | 77.19 |
| <i>unica</i> Cresson, 1926, <i>Psilopa</i> .....                                 | 77.9  |
| <i>univittata</i> Cresson, 1946, <i>Discocerina</i> .....                        | 77.8  |
| <i>variabilis</i> Cresson, 1917, <i>Scatophila</i> .....                         | 77.27 |
| <i>venteli</i> Oliveira, 1954, <i>Dimecoenia</i> .....                           | 77.23 |
| <i>virgata</i> Coquillett, 1900, <i>Notiphila</i> .....                          | 77.14 |
| <i>vittata</i> Wirth, 1955, <i>Scatella</i> .....                                | 77.26 |
| <i>vulgaris</i> Cresson, 1931, <i>Hydrellia</i> .....                            | 77.13 |
| <i>vulgata</i> Cresson, 1931, <i>Scatella</i> .....                              | 77.26 |
| <i>willistoni</i> Cresson, 1914, <i>Gastrops</i> .....                           | 77.19 |
| <i>willistoni</i> (Cresson), 1918 ( <i>Psilopa</i> ), <i>Leptopsilopa</i> .....  | 77.10 |
| <i>willistoni</i> Cresson, 1916, <i>Lytogaster</i> .....                         | 77.19 |
| <i>willistoni</i> Wirth, nom. nov., <i>Nostima</i> .....                         | 77.17 |
| <i>wrighti</i> (Cresson), 1931 ( <i>Ochthera</i> ), <i>Stenochthera</i> .....    | 77.21 |
| <i>xanthocera</i> Cresson, 1938, <i>Hydrellia</i> .....                          | 77.13 |
| <i>yosemite</i> Cresson, 1926, <i>Allotrichoma</i> .....                         | 77.5  |
| <i>zernyi</i> Hendel, 1936, <i>Hydrochasma</i> .....                             | 77.8  |
| <i>Zeros</i> Cresson, 1943 .....   | 77.18 |
| <i>zurcheri</i> Hendel, 1933, <i>Dimecoenia</i> .....                            | 77.23 |











(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS SOUTH  
OF THE UNITED STATES

78

## FAMILY CURTONOTIDAE

WILLIS W. WIRTH

*Systematic Entomology Laboratory, Agricultural Research Service, USDA  
c/o U. S. National Museum, Washington, D.C. 20560*

A small family of small, grayish to brownish, hump-backed, robust flies, the curtonotids have often been placed in the Drosophilidae or Diastatidae. Enderlein (1914 : 366; 1917 : 67) proposed Cyrtonotinae as a subfamily of Ephydriidae. Hendel (1917 : 43) made them a subfamily of Drosophilidae, followed by Malloch (1930 : 323) and Hendel (1932 : 133). Duda (1924 : 177) and Okada (1960 : 165; 1966 : 11) placed them in the Diastatidae. Following Duda (1934 : 1), Hennig (1958 : 671), and Delfinado (1969 : 199) they are given family status.

The breeding habits have only recently been discovered. Greathead (1958 : 36) found the larvae of *Curtonotum cuthbertsoni* Duda feeding as scavengers in egg beds of the desert locust (*Schistocerca*) in Eritrea. Cuthbertson (1936 : 46) reared *Cyrtona albomacula* (Curran) from human feces in Southern Rhodesia. The breeding habits of the American species are unknown, and the taxonomy of the group has been very much neglected.

## Genus CURTONOTUM Macquart

CURTONOTUM Macquart, 1843:350. Type-species, *Musca gibba* Fabricius (mon.).

*Cyrtonotum*, emend.

*Diplocentra* Loew, 1862:13 (unjustified nom. nov. for *Curtonotum* Macquart). Type-species, *Musca gibba* Fabricius (aut.).

Refs. — Hendel, 1913:618 (revision, key to Neotropical species); Sturtevant, 1921:52 (diagnosis; discussion of classification); Hendel, 1933:79 (generic characters); Curran, 1934:440 (key to species occurring, in Guyana).

APICALE Hendel, 1913:621. Type-locality: Peru, mouth of Pachitea R. Distr. — Peru.

BATHMEDIUM Hendel, 1913:628, fig. 3 (wing). Type-locality: Peru (syntypes): mouth of Pachitea R., Pichis (Puerto Bermúdez), Ucayali R. Distr. — Bolivia, Peru.

78.1

*bathymedum*, error; Malloch, 1930:325.

- CORIACEUM Hendel, 1932:133. Type-locality: Bolivia, Pilcomayo. Distr. — Bolivia.
- DECUMANUM Bezzi, 1914:199. Type-locality: Paraguay, Alto Paraná, Puerto Bertoni. Distr. — Paraguay.
- FUMIPENNE Hendel, 1913:626. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- GIBBUM (Fabricius), 1805:297 (*Musca*). Type-locality: "America Meridionali". Distr. — Brazil, Bolivia, Surinam. Refs. — Hendel, 1913:624 (descriptive notes); Enderlein, 1917:69 (notes); Malloch, 1930:326 (notes; synonym — *taeniatum* Hendel); Hendel, 1933:77 (notes on synonymy).
- HENDELI Malloch, 1930:325. Type-locality: "Brazil". Distr. — Brazil. Ref. — Curran, 1934:441 (redescribed; Guyana). Note. — Proposed by Malloch as a new name; this is a new species proposed by Malloch for *gibbum* of Hendel, not Fabricius; type-locality is that of the Wiedemann (1830:586) specimens discussed by Hendel, 1913:624, as *gibbum*.
- HENDELIANUM (Enderlein), 1917:71 (*Diplocentra*). Type-locality: "Surinam". Distr. — Surinam.
- IMPUNCTATUM Hendel, 1913:625. Type-locality: Peru, mouth of Pachitea R. Distr. — Peru.
- IMPUNCTATUM Hendel, 1932:134 (preocc. Hendel, 1913). Type-locality: Bolivia, Pilcomayo. Distr. — Bolivia. Needs new name.
- MAGNUM Malloch, 1930:326. Type-locality: Brazil, Rio de Janeiro, Serra do Itatiaia, Alto do Itatiaia. Distr. — Brazil (Rio de Janeiro).
- MURINUM Hendel, 1913:622. Type-locality: Peru (syntypes): Chanchamayo, Meshagua, Urubamba R. Distr. — Peru.
- NIGRIPALPE Hendel, 1936:90. Type-locality: Brazil, Pará, Belém. Distr. — Brazil (Pará).
- PANTHERINUM (Walker), 1849:1090 (*Helomyza*). Type-locality: "Brazil". Distr. — Brazil. Ref. — Hendel, 1913:623 (redescribed; *gibbum* of Wiedemann in part; distr.).
- PUNCTITHORAX Fischer, 1933:88, figs. 2-6 (head, proboscis, scutellum, wing). Type-locality: Brazil, São Paulo, Capital (Avenida Paulista). Distr. — Brazil.
- SALINUM Curran, 1934:440. Type-locality: Guyana, Kartabo. Distr. — Guyana. Ref. — Malloch, 1930:325 (synonym of *pantherinum*).
- SIMPLEX Schiner, 1868:237. Type-locality: "Brazil". Distr. — Brazil.
- TAENIATUM Hendel, 1913:629. Type-locality: Peru, Urubamba, R., Umu-huankiali. Distr. — Peru. Ref. — Malloch, 1930:325 (synonym of *gibbum*).
- TRYPETIPENNE Hendel, 1913:620, fig. 2 (wing). Type-locality: Peru (syntypes): Pichis, Puerto Bermúdez, Piñipini, Uacayali R., Unini,

Urubamba R. Distr. — Peru. Ref. — Enderlein, 1917:70, fig. 10 (wing) (redescribed; Peru).

TUMIDUM Enderlein, 1917:67. Type-locality (syntypes): Brazil, Pará; Ecuador, Archidona, Coca, and Napo; Surinam. Distr. — Brazil, Ecuador, Surinam. Ref. — Hendel, 1933:78 (notes).

VULPINUM Hendel, 1913:627. Type-locality: Peru, Pichis, Puerto Bermúdez. Distr. — Peru.

#### LITERATURE CITED

BEZZI, M.

1914. Eine neue südamerikanische Art der Dipterengattung *Cyrtotonotum*. *Deutsche ent. Ztschr.* 1914:199-200.

CURRAN, C. H.

1934. The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Amer. Mus. Nat. Hist.* 66:287-532, 54 figs.

CUTHBERTSON, A.

1936. Biological notes on some Diptera of Southern Rhodesia. *Occ. Rep. Ghod. Mus.* 5:46-63.

DELFINADO, M. D.

1969. The Oriental species of Curtonotidae (Diptera). *Oriental Ins.* 3:199-219, 25 figs.

DUDA O.

1924. Beitrag zur Systematik der Drosophiliden unter besonderer Berücksichtigung der paläarktischen u. orientalischen Arten (Dipteren). *Arch. f. Naturg.* 90:172-234, 7 pls.

1934. Curtonotidae, [Fam. 58], pp. 1-5, figs. 1-4, in E. Lindner, ed., *Die Fliegen der paläarktischen Region* 6(1). Stuttgart.

ENDERLEIN, G.

1914. Ord. Diptera, Fliegen (Zweiflügler), pp. 272-334, figs. 212-248, in P. Brohmer, *Fauna von Deutschland*, 587 pp., 516 figs., 20 pls. Leipzig.

1917. Dipterologische Studien. XVI. Dipterologische Notizen. *Zool. Anz.* 49:57-71, 10 figs.

FABRICIUS, J. C.

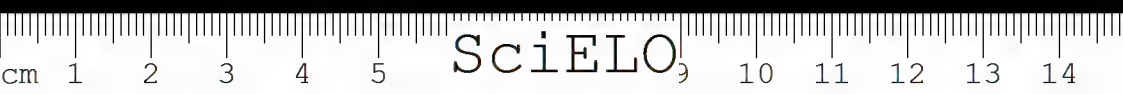
1805. *Systema antliatorum secundum ordines, genera, species*, 373 + 30 pp. Brunsvigae.

FISCHER, C. R.

1933. Nota sobre *Anastrepha punctata* Hend. (Dipt. Trypetidae) e uma espécie nova de *Cyrtotonotum* (Dipt. Drosophilidae). *Rev. Ent.*, Rio de Janeiro 3:83-92, figs.

GREATHEAD, D. J.

1958. Notes on the larva and life history of *Cyrtotonotum cuthbertsoni* Duda (Dipt., Drosophilidae), a fly associated with the





desert locust *Schistocerca gregaria* (Forsk.). *Ent. Mo. Mag.* 94:36-37, 1 pl.

HENDEL, F.

1913. Neue amerikanische Diptera. 1. Beitrag. *Deutsche ent. Ztschr.* 1913:617-636, 5 figs.
1917. Beiträge zur Kenntnis der acalyptraten Musciden. *Deutsche ent. Ztschr.* 1917:33-47.
1932. Die Ausbeute der deutschen Chaco-Expedition 1925/26. — Diptera. XXX-XXXVI. Sciomyzidae, Lauxaniidae, Tanypezidae, Lonchaeidae, Tylidae, Drosophilidae, Mniichidae. *Konowia* 11: 98-110, 115-145, figs.
1933. Ueber einige Typen Wiedemann's und Schiner's von acalptraten Musciden aus Südamerika, nebst einigen verwandten Arten (Dipt.). *Rev. Ent.*, Rio de Janeiro 3:58-83, 1 fig.
1936. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny. X. Teil. Diptera: Muscidae Acalyptratae (excl. Chloropidae). *Ann. Naturh. Mus. Wien* 47:61-106, 5 figs.

HENNIG, W.

1958. Die Familien der Diptera Schizophora und ihre phylogenetischen Verwandtschaftsbeziehungen. *Beitr. z. Ent.*, Berlin 8:505-688, 365 figs.

LOEW, H.

1862. Ueber die europäischen Heleomyziden und die in Schlesien vorkommenden Arten derselben. *Ztschr. Ent.*, Breslau 13:1-80 (1859).

MACQUART, J.

1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. R. Sci. Agric. Lille* 1842:162-460, 36 pls. (Also as "Diptères exotiques nouveaux ou peu connus 2(3):5-304, 36 pls., Paris, 1843).

MALLOCH, J. R.

1930. Exotic Muscaridae (Diptera). — XXX. *Ann. Mag. Nat. Hist.* (10)6:321-334, 3 figs.

OKADA, T.

1960. Notes on Diastatidae from Japan (Diptera). *Kontyû* 28:165-167, 2 figs.
1966. Diptera from Nepal. Cryptochaetidae, Diastatidae and Drosophilidae. *Bull. Brit. Mus. (Nat. Hist.)*, *Ent. (Suppl.)* 6:3-129, 327 figs.

SCHINER, I. R.

1868. Diptera, 388 pp., 4 pls., in *Reise der österreichischen Fregatte Novara*, *Zool.* 2(1, B). Wien.

STURTEYANT, A. H.

1921. The North American species of *Drosophila*. *Carnegie Inst. Washington Publ.* 301:1-150, 3 pls., 49 figs.

WALKER, F.

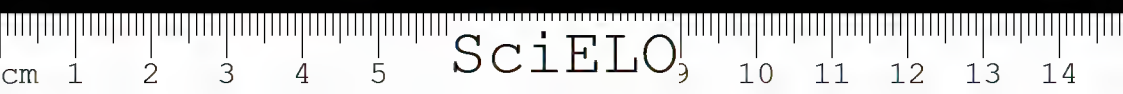
1849. *List of the specimens of dipterous insects in the collection of the British Museum* 2:231-484. London.

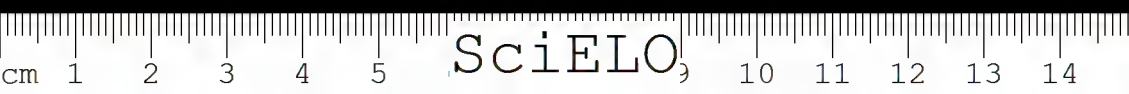
WIEDEMANN, C. R. W.

1830. *Aussereuropäische zweiflügelige Insekten* 2: 684 pp., 5 pls. Hamm.

## INDEX

|  |      |
|--|------|
| apicale Hendel, 1913, <i>Curtonotum</i> .....                                | 78.1 |
| bathmedum Hendel, 1913, <i>Curtonotum</i> .....                              | 78.1 |
| <i>bathymedum</i> , error .....  | 78.2 |
| coriaceum Hendel, 1932, <i>Curtonotum</i> .....                              | 78.2 |
| <i>Curtonotum</i> Macquart, 1843 .....                                       | 78.1 |
| <i>Cyrtotum</i> , emend. ....  | 78.1 |
| decumanum Bezzi, 1914, <i>Curtonotum</i> .....                               | 78.2 |
| <i>Diplocentra</i> Loew, 1862 .....  | 78.1 |
| fumipenne Hendel, 1913, <i>Curtonotum</i> .....                              | 78.2 |
| gibbum (Fabricius), 1805 ( <i>Musca</i> ), <i>Curtonotum</i> .....           | 78.2 |
| <i>gibbum</i> (Fabricius) of Hendel .....                                    | 78.2 |
| <i>gibbum</i> (Fabricius) of Wiedemann .....                                 | 78.2 |
| hendeli Malloch, 1930, <i>Curtonotum</i> .....                               | 78.2 |
| hendelianum (Enderlein), 1917 ( <i>Diplocentra</i> ), <i>Curtonotum</i> .... | 78.2 |
| impunctatum Hendel, 1913, <i>Curtonotum</i> .....                            | 78.2 |
| impunctatum Hendel, 1932, <i>Curtonotum</i> .....                            | 78.2 |
| magnum Malloch, 1930, <i>Curtonotum</i> .....                                | 78.2 |
| murinum Hendel, 1936, <i>Curtonotum</i> .....                                | 78.2 |
| nigripalpe Hendel, 1936, <i>Curtonotum</i> .....                             | 78.2 |
| pantherinum (Walker), 1849 ( <i>Helomyza</i> ), <i>Curtonotum</i> .....      | 78.2 |
| punctithorax Fischer, 1933, <i>Curtonotum</i> .....                          | 78.2 |
| salinum Curran, 1934, <i>Curtonotum</i> .....                                | 78.2 |
| simplex Schiner, 1868, <i>Curtonotum</i> .....                               | 78.2 |
| taeniatum Hendel, 1913, <i>Curtonotum</i> .....                              | 78.2 |
| trypetipenne Hendel, 1913, <i>Curtonotum</i> .....                           | 78.2 |
| tumidum Enderlein, 1917, <i>Curtonotum</i> .....                             | 78.3 |
| vulpinum Hendel, 1913, <i>Curtonotum</i> .....                               | 78.3 |





Este trabalho foi composto e impresso  
nas oficinas gráficas da

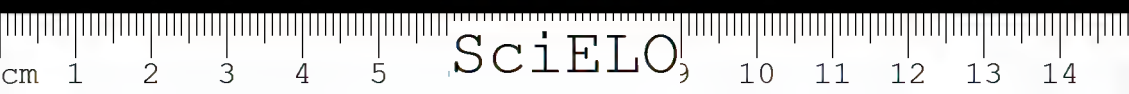


**TIPOGRAFIA EDANEE S.A.**

à Rua do Bosque n.º 1.426 - São Paulo

CEP 01136





MUSEU DE ZOOLOGIA, UNIVERSIDADE DE SÃO PAULO

(Formerly Departamento de Zoologia, Secretaria da Agricultura, São Paulo)

A CATALOGUE OF THE DIPTERA OF THE AMERICAS  
SOUTH OF THE UNITED STATES

79

## FAMILY DROSOPHILIDAE

MARSHALL R. WHEELER

*Genetics Foundation, Department of Zoology, University of Texas,  
Austin, Texas 78712*

The Drosophilidae is a large family of flies of world-wide distribution. About 175 species are known from the Nearctic region; several times this number are neotropical although a majority of them are as yet undescribed. About half of the known species belong to the very large genus *Drosophila*; these are found primarily around spoiled fruit, slime fluxes on tree trunks and roots, in rotting cacti and fungi, and in almost all of these situations the larvae feed on the various microorganisms which occur there. Several hundred species have been raised in the laboratory on artificial media simulating these natural diets (see Wheeler, 1967, for a survey of culture techniques) and therefore have been most useful in research in genetics and cytology.

Some *Scaptomyza* larvae are leaf miners; *Chymomyza* is usually associated with fresh sap from tree wounds; some *Clastopteromyia* larvae are ectoparasites on the nymphs of Cercopidae (Homoptera); as far as is known all *Pseudiasata* larvae are predacious on mealybugs; and *Mycodrosophila*, *Zygothrica*, *Paraliodrosophila*, *Paramycodrosophila*, the subgenus *Hirtodrosophila* of *Drosophila*, and some species of many other genera are associated with rotting fungi. Some species live in flowers, e.g., all species of *Zapriothrica* and *Laccodrosophila*, the subgenus *Phloridosa* of *Drosophila*, and the *flavopilosa* complex of *Drosophila*. Two remarkable species (*Drosophila carcinophila* and *Drosophila endobranchia*) are parasites — or perhaps only commensals — on certain land crabs. It is apparent from the above summary that the food habits in this family are highly diverse. None-the-less, the food habits are still undiscovered for a majority of the species.

General references: Patterson & Stone, 1952 (genetics, evolution); Wheeler, 1959a (nomenclature); Throckmorton, 1962 (phylogeny); Heed, 1956, 1957, Pipkin, 1965, Pipkin *et al.* 1966 (ecology); Wheeler, 1967 (culture methods); Patterson & Wagner, 1943, Patterson & Wheeler, 1949, Cova-García & Suárez, 1962 (distribution); Okada, 1968 (immature stages); McAlpine, 1968 (Subfamily Steganinae). Recent research involving this family is usually reported in the *Drosophila Information Service* (generally known as *DIS*); this is distributed annually to the major *Drosophila* genetics laboratories of the world and is a valuable source of research notes and culture listings. Further information may be obtained

79.1



from the Department of Biology, University of Oregon, Eugene, Oregon, U.S.A..

### Subfamily STEGANINAE

#### Genus AMIOTA Loew

AMIOTA Loew, 1862:229 (Cent. 2, no. 93). Type-species, *Ieucostoma* Loew (Coquillett, 1910:505).

#### Subgenus AMIOTA Loew

BARRETTI (Johnson), 1921:59 (*Stegana*). Type-locality: Mexico, Amecameca. Distr. — Mexico (Amecameca). Ref. — Wheeler, 1952:172.

MINOR (Malloch), 1921:312 (*Phortica*). Type-locality: U.S.A., Illinois, Dubois. Distr. — North America (Maine to Wash. to Texas and Arizona); Mexico (Vera Cruz, Puente Nacional). Ref. — Patterson & Malland, 1944:13.

STEGANOPTERA Malloch, 1926:31, pl. 2, fig. 18. Type-locality: Costa Rica, Higuito, San Mateo. Distr. — Uncertain, a species complex ranging from Florida to Brazil.

#### Subgenus PHORTICA Schiner

PHORTICA Schiner, 1862:433 (as genus). Type-species, *Drosophila variegata* Fallén (orig. des.).

ALBAVICTORIA Patterson & Mainland, 1944:13. Type-locality: Mexico, Hidalgo, Jacala. Distr. — Mexico (Hidalgo, Puebla), Panama (Chiriqui). Ref. — Wheeler, 1960a:90.

#### Subgenus SINOPHTHALMUS Coquillett

SINOPHTHALMUS Coquillett, 1904:190 (as genus). Type-species, *pictus* Coquillett (orig. des.).

PICTA (Coquillett), 1904:191 (*Sinophthalmus*). Type-locality: U.S.A., California, Claremont. Distr. — Western United States, Mexico (Zacatecas). Ref. — Wheeler, 1952:209.

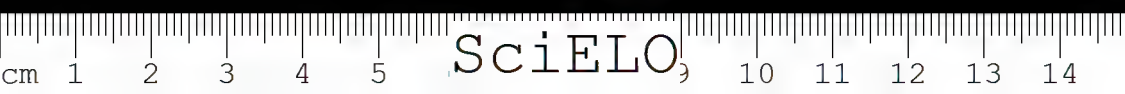
ssp. GAGEI Patterson & Mainland, 1944:12, pl. XI. Type-locality: Mexico, Chihuahua, Santa Clara. Distr. — Mexico (Chihuahua).

POLYCHAETA Wheeler, 1968:436. Type-locality: Panama, Chiriqui, Boquete. Distr. — Panama (Chiriqui), Nicaragua (Santa Maria de Ostuma), El Salvador (Volcán Santa Ana).

#### Genus GITONA Meigen

GITONA Meigen, 1830:129. Type-species, *distigma* Meigen (mon.). Ref. — McAlpine, 1968.

AMERICANA Patterson, 1943:33. Type-locality: U.S.A., Texas, Austin. Distr. — Southern United States (Texas to California), Mexico (Morelos, Tamaulipas, Michoacán).



- BIVISUALIS** Patterson, 1943:35. Type-locality: U.S.A., Texas, Eddy. Distr. — Southern United States (Texas to Florida), Puerto Rico, Cuba, Jamaica, Grenada, St. Vincent, Mexico (Hidalgo, San Luis Potosí, Yucatán), El Salvador, ?Peru.
- BRASILIENSIS** Lima, 1950:251. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil, Galapágos Is. (Santa Cruz I.), Trinidad, Peru. Ref. — Wheeler, 1961:750.
- FLUMINENSIS** Lima, 1950:249. Type-locality: Brazil, Rio de Janeiro, Teresópolis. Distr. — Brazil (Rio de Janeiro).

### Genus LEUCOPHENGHA Mik

- LEUCOPHENGHA** Mik, 1886:317. Type-species, *Drosophila maculata* Dufour (orig. des.).

### Subgenus LEUCOPHENGHA Mik

- ACUTIPENNIS** Malloch, 1926:32. Type-locality: Costa Rica, San Mateo, Higuato. Distr. — Costa Rica (San Mateo).
- ARGENTEIVENTRIS** Kahl, 1917:378. Type-locality: Bolivia, Province del Sara. Distr. — Bolivia, ?Costa Rica.
- ARGENTEOFASCIATA** Kahl, 1917:371. Type-locality: Brazil, Pará, Santarém. Distr. — Brazil.
- BIMACULATA** (Loew), 1865:183 (*Drosophila*). Type-locality: "Cuba". Distr. — Cuba, Mexico, ?Costa Rica.
- BRAZILENSIS** Malloch, 1924b:9. Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.
- BRUNNEIPENNIS** Kahl, 1917:373. Type-locality: Bolivia, Las Juntas. Distr. — Bolivia.
- CHACO** Wheeler, 1968:441 (nom. nov. for *conjuncta* Duda). Type-locality: Argentina, Tapikiolé. Distr. — Argentina.
- conjuncta* Duda, 1929:47 (preocc. Malloch, 1924). Type-locality: Argentina, Tapikiolé.
- ELEGANS** Duda, 1927:77, fig. 22. Type-locality: "Peru, Vilcanota" and "Oaxaco". Distr. — Peru, Puerto Rico, Jamaica, Dominican Rep., Panama, El Salvador, Colombia, Bolivia, Venezuela.
- FRONTALIS** (Williston), 1896:413 (*Drosophila*). Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent, St. Kitts, Barbados, Grenada, Jamaica, Puerto Rico, Haiti), Costa Rica, Honduras, Nicaragua, El Salvador, Panama, Colombia, Venezuela, Ecuador, Brazil.
- HASEMANI** Kahl, 1917:375. Type-locality: Brazil, Espírito Santo. Distr. — Brazil.
- MACULOSA** (Coquillett), 1895:317 (*Drosophila*). Type-locality: U.S.A., Florida. Distr. — Widespread, from northern United States to Argentina and Chile, and in the West Indies.
- var. **FENESTRATA** Duda, 1927:82. Type-locality: "Peru". Distr. — Peru, Bolivia, Argentina.
- var. **SCHNUSEANA** Duda, 1927:83. Type-locality: "Peru", 3000 m. Distr. — Peru.



- NEOVARIA Wheeler, 1960a:89. Type-locality: Puerto Rico, Mayaguez. Distr. — Puerto Rico, Jamaica, U.S.A. (Florida), El Salvador, Nicaragua, Colombia.
- OBSCURIPENNIS (Loew), 1865:183 (*Drosophila*). Type-locality: "Cuba". Distr. — Cuba, Costa Rica, Brazil.
- var. BEZZII Duda, 1927:82. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- ORNATIVENTRIS Kahl, 1917:379. Type-locality: Bolivia, Province del Sara. Distr. — Bolivia.
- PALUDICOLA Patterson & Mainland, 1944:14. Type-locality: Mexico, Michoacán, Patzcuaro. Distr. — Mexico (Michoacán).
- TRIPUNCTIPENNIS Malloch, 1926:32, pl. 2, fig. 15. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- UNDULATA (Hendel), 1913b:386 (*Oxyleucophenga*). Type-locality: "Peru". Distr. — Peru, Bolivia.
- UNIFASCIVENTRIS Malloch, 1926:32. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- VARIA (Walker), 1849:1109 (*Drosophila*). Type-locality: U.S.A., Georgia. Distr. — U.S.A. (Mass. to Florida), Mexico (Oaxaca), ?Brazil.

#### Subgenus NEOLEUCOPHENGHA Oldenberg

- Paraleucophenga* Oldenberg, 1914:18 (preocc. Hendel, 1914). Type-species, *Leucophenga quinquemaculata* Strobl (orig. des.).
- NEOLEUCOPHENGHA Oldenberg, 1915:93 (as genus; nom. nov. for *Paraleucophenga* Oldenberg). Type-species, *Leucophenga quinquemaculata* Strobl (aut.).
- PULCHERRIMA Patterson & Mainland, 1944:14, pl. XI. Type-locality: Mexico, Hidalgo, La Placita. Distr. — U.S.A. (Arizona, new Mexico), Mexico (Hidalgo, Michoacan).

#### Genus MAYAGUEZA Wheeler

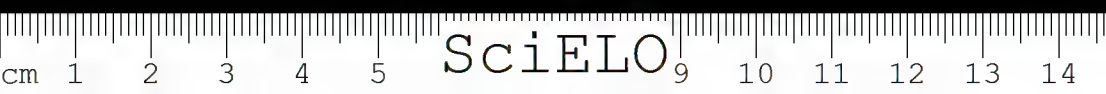
- MAYAGUEZA Wheeler, 1960b:210. Type-species, *argentifera* Wheeler (orig. des.).
- ARGENTIFERA Wheeler, 1960b:212. Type-locality: Puerto Rico, Mayaguez. Distr. — Puerto Rico.

#### Genus PSEUDIASTATA Coquillett

- PSEUDIASTATA Coquillett, 1908:148. Type-species, *nebulosa* Coquillett (orig. des.). Ref. — Sabrosky, 1951.

#### Subgenus PSEUDIASTATA Coquillett

- ARMATA Wheeler, 1957:111. Type-locality: Panama, Canal Zone, Fort Sherman. Distr. — Panama (Canal Zone).
- BRASILIENSIS Lima, 1937:179. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil. Ref. — Figueiredo, 1938; Gonçalves, 1939; Sabrosky, 1951.



- PSEUDOCOCCIVORA Sabrosky, 1951:624. Type-locality: Panama, Canal Zone. Distr. — Panama (Canal Zone), Mexico.
- VORAX Sabrosky, 1951:625. Type-locality: Trinidad, River Estate. Distr. — Trinidad.

#### Subgenus HYALISTATA Wheeler

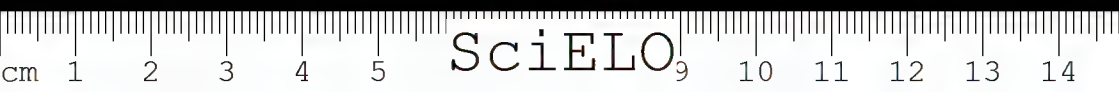
- Pseudistata*, subg. HYALISTATA Wheeler, 1960d:67. Type-species, *pictiventris* Wheeler (orig. des.).
- FALLIDA Wheeler, 1960d:68. Type-locality: Trinidad, St. Augustine. Distr. — Trinidad.
- PICTIVENTRIS Wheeler, 1960d:68. Type-locality: Mexico, Morelos, Guernavaca. Distr. — U.S.A. (Florida), Mexico (Morelos).

#### Genus RHINOLEUCOPHENGHA Hendel

- RHINOLEUCOPHENGHA Hendel, 1917:44. Type-species, *pallida* Hendel (orig. des.). Ref. — Malogolowkin, 1946.
- ANGUSTIFRONS Malogolowkin, 1946:425. Type-locality: Brazil, Rio de Janeiro, Angra dos Reis, Jussaral. Distr. — Brazil.
- BEZZII Duda, 1927:43. Type-locality: Costa Rica, San José. Distr. — Costa Rica.
- BREVIPLUMATA Duda, 1927:46. Type-locality: Peru, Ucayali R. Distr. — Peru.
- LOPESI Malogolowkin, 1946:424. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- MATOGROSSENSIS Malogolowkin, 1946:420. Type-locality: Brazil, Mato Grosso, Salobra. Distr. — Brazil.
- NIGRESCENS Malogolowkin, 1946:421. Type-locality: Brazil, Mato Grosso, Salobra. Distr. — Brazil.
- OBESA (Loew), 1872:102 (Cent. 10, n°. 85) (*Drosophila*). Type-locality: U.S.A., Texas. Distr. — U.S.A. (central and southern states), ?Mexico, ?Brazil.
- FALLIDA Hendel, 1917:45. Type-locality: "Peru". Distr. — Peru, ?Brazil.
- PERSONATA Malogolowkin, 1946:422. Type-locality: Brazil, Mato Grosso, Salobra. Distr. — Brazil.
- PUNCTULATA Duda, 1929:43. Type-locality: Bolivia, "60 Km. nördl. San José de Chiquitos." Distr. — Bolivia.
- STIGMA Hendel, 1917:45. Type-locality: "Bolivia". Distr. — Bolivia.  
var. FLAVICEPS Duda, 1929:46. Type-locality: Bolivia, "60 Km. nördl. San José de Chiquitos." Distr. — Bolivia
- SUBRADIATA Duda, 1929:45. Type-locality: Bolivia, San José de Chiquitos. Distr. — Bolivia.

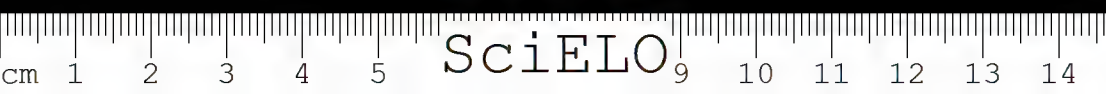
#### Genus STEGANA Meigen

- STEGANA Meigen, 1830:79. Type-species, *nigra* Meigen (Zetterstedt, 1847:2577) = *furta* (Gmelin). Ref. — Malloch, 1924b.
- [The neotropical species of *Stegana*, *sensu lato*, are listed alphabetically below. A number of generic and subgeneric segregates have



been proposed but the assignment of the various species in them is highly confused, and is not being attempted at this time].

- ACUTANGULA (Hendel), 1913a:632 (*Orthostegana*). Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia, Peru, Colombia, Panama (Canal Zone), Nicaragua.
- AFFINIS Malloch, 1924a:7. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- ANTICA Curran, 1934:439. Type-locality: Guyana, Kartabo. Distr. — Guyana.
- ATRIFRONS Malloch, 1924a:5. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- ATRIMANA Malloch, 1924a:2. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- BRASILIENSIS (Duda), 1927:27 (*Protostegana*). Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.
- BRUNNEA Malloch, 1924a:7. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- CONFORMIS Malloch, 1924a:8. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- CRISTIMANA Malloch, 1924b:8. Type-locality: Panama, Alhajuelo. Distr. — Panama.
- DORSOLINEATA Duda, 1925:159. Type-locality: "Costa Rica". Distr. — Costa Rica.
- FLAVIFRONS Malloch, 1924a:4. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- FLAVIMANA Malloch, 1924a:8. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- FUSCIBASIS Malloch, 1924a:8. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- HORAE Williston, 1896:405. Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent).
- INTERMEDIA (Duda), 1927:30 (*Protostegana*). Type-locality: "Costa Rica". Distr. — Costa Rica.
- INTERRUPTA Malloch, 1924b:2. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- MAGNIFICA Hendel, 1913a:630. Type-locality: Peru, Urubamba R. Distr. — Peru.
- MINOR Duda, 1927:22. Type-locality: "Costa Rica". Distr. — Costa Rica.
- NIGRIMANA Malloch, 1924b:9. Type-locality: Panama, Alhajuelo. Distr. — Panama.
- NIGRITA Malloch, 1924a:1. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- NICROMARGINATA Duda, 1925:160. Type-locality: "Costa Rica". Distr. — Costa Rica.
- NORMA Curran, 1934:439. Type-locality: Guyana, Kartabo. Distr. — Guyana.
- PLANIFACIES Malloch, 1924a:4. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.



- PLATYPEZINA (Duda), 1927:29 (*Protostegana*). Type-locality: Bolivia, Mapiri. Distr. — Bolivia.
- SCHILDI Malloch, 1924a:5. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- TARSALIS Williston, 1896:404, pl. XIII. Type-locality: West Indies, St. Vincent). Distr. — West Indies (St. Vincent).
- TEMPIFERA Malloch, 1924a:3. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- TRISETA (Duda), 1925:160 (*Oxyphortica*). Type-locality: "Costa Rica". Distr. — Costa Rica.
- UNIFORMIS Malloch, 1924a:6. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- VARICOLOR (Duda), 1925:161 (*Protostegana*). Type-locality: "Costa Rica". Distr. — Costa Rica, Bolivia, Peru.
- var. NIGRA Duda, 1925:161 (*Protostegana*). Type-locality: "Costa Rica". Distr. — Costa Rica.

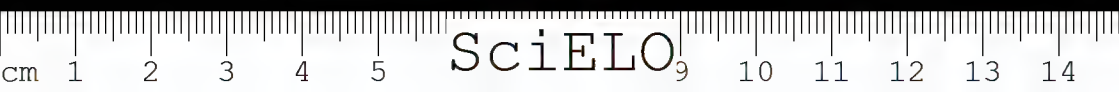
#### Genus TRACHYLEUCOPHENGHA Hendel

- TRACHYLEUCOPHENGHA Hendel, 1917:44. Type-species, *flavocostata* Hendel (orig. des.).
- FLAVOCOSTATA Hendel, 1917:44. Type-locality: Colombia, Aracataca. Distr. — Colombia.

#### Subfamily DROSOPHILINAE

##### Genus CHYMOMYZA Czerny

- CHYMOMYZA Czerny, 1903:199. Type-species, *Drosophila fuscimana* Zetterstedt (Sturtevant, 1921:61).
- AMOENA (Loew), 1862:230 (Cent. 2, n°. 96) (*Drosophila*). Type-locality: U.S.A., District of Columbia. Distr. — Canada south to Mexico.
- BICOLORIPES (Malloch), 1926:31 (*Drosophila*). Type-locality: Panama, Canal Zone, Las Cascadas (data from type; erroneously given as Higuito, Costa Rica by Malloch, *op. cit.*). Distr. — Costa Rica, Panama (Canal Zone), Colombia, Bolivia. Ref. — Carpenter, 1954 (mold transmission).
- LAEVILIMBATA Duda, 1927:65. Type-locality: Peru, Pichis, Puerto Bermúdez, mouth of Pachitea R., and Meshagua; Bolivia, Mapiri. Distr. — Haiti, Mexico, Honduras, Nicaragua, El Salvador, Panama, Colombia, Trinidad, Brazil, Ecuador, Peru, Bolivia.
- MACULIPENNIS Hendel, 1936:97. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil.
- MESOPECTA Wheeler, 1968:435. Type-locality: Peru, Lima. Distr. — Peru, ?Brazil.
- MEXICANA Wheeler, 1949a:162. Type-locality: Mexico, Puebla, Peña de Gato. Distr. — Mexico, Nicaragua, El Salvador.
- PECTINIFEMUR Duda, 1927:66. Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.





PROCNEMIS (Williston), 1896:412 (*Drosophila*). Type-locality: West Indies, St. Vincent. Distr. — U.S.A., Cuba, Barbados, St. Vincent, Mexico, Panama, Colombia, Brazil; Hawaii.

### Genus CLADOCHAETA Coquillett

CLADOCHAETA Coquillett, 1900:263. Type-species, *nebulosa* Coquillett (orig. des.).

INFUMATA (Duda), 1925:179 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama.

NEBULOSA Coquillett, 1900:263. Type-locality: Puerto Rico, Arroyo. Distr. — Uncertain, a species complex ranging from West Indies to Mexico to Colombia.

### Genus CLASTOPTEROMYIA Malloch

CLASTOPTEROMYIA Malloch, in Malloch & McAtee, 1924:31. Type-species, *Drosophila inversa* Walker (orig. des.).

*Diathoneura* Duda, 1924:180 (without species); 1925:172. Type-species, *taeniatipennis* Duda (Malloch, 1934:438).

Ref. — Frota-Pessoa, 1947. He showed that many species of *Diathoneura* belong in *Clastopteromyia*, but it is not certain that all species do. However, until better generic and subgeneric arrangements can be made, all known species will be lumped together here.

### Subgenus CLASTOPTEROMYIA Malloch

ABERRANS Wheeler, 1957:107. Type-locality: Haiti, Kenscoff. Distr. — Haiti.

ADUMBRATA (Duda), 1925:178 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.

ALBIFACIES (Duda), 1925:181 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Nicaragua, Colombia.

ALBINOTA Wheeler, 1957:108. Type-locality: Panama, Cerro La Campana. Distr. — Panama (Canal Zone), Nicaragua, Honduras, Costa Rica, Colombia, Venezuela, Trinidad, Brazil.

ARMATA Frota-Pessoa, 1947:195. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.

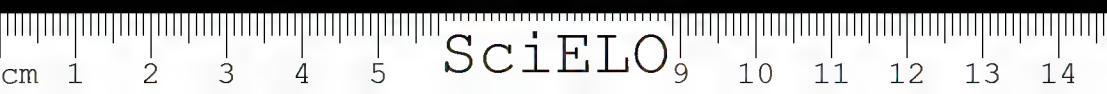
BICOLOR Frota-Pessoa, 1947:211. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.

BOMPLANDI (Malloch), 1934:438 (*Diathoneura*). Type-locality: Argentina, Bompland. Distr. — El Salvador, Brazil, Argentina.

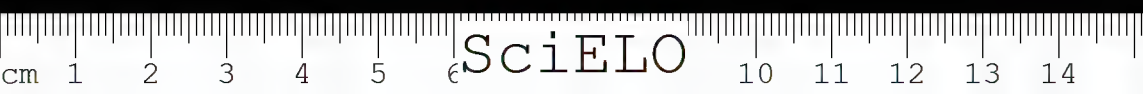
BORGMEIERI (Duda), 1927:92 (*Diathoneura*). Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.

BRASILIENSIS (Duda), 1927:93 (*Diathoneura*). Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.

CARRERAI Frota-Pessoa, 1947:200. Type-locality: Brazil, São Paulo, São Paulo, Cantareira. Distr. — Brazil.



- CAVALCANTI Frota-Pessoa, 1947:204. Type-locality: Brazil, Guanabara, Rio de Janeiro, Corcovado. Distr. — Brazil.
- CRUCIATA (Duda), 1925:177 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, El Salvador, Honduras.
- DUBIA (Sturtevant), 1921:73 (*Drosophila*). Type-locality: Cuba, Cristo. Distr. — Cuba, Costa Rica, El Salvador, Honduras.
- EURYOPA (Duda), 1925:179 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Jamaica, Costa Rica, Panama, Nicaragua.
- FLAVOLINEATA (Duda), 1927:97 (*Diathoneura*). Type-locality: Costa Rica, San José. Distr. — Costa Rica.
- GUTTIPENNIS (Duda), 1925:171 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama, ?Peru.
- IHERINGI Frota-Pessoa, 1947:206. Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.
- INVERSA (Walker), 1861:331 (*Drosophila*). Type-locality: "U.S.A." Distr. Uncertain, a complex of species ranging from the United States to West Indies and south to Peru and Brazil.
- LATICEPS (Duda), 1925:175 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama.
- LONGIPENNIS Malloch, 1926:34. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica, El Salvador, Honduras, Panama (Canal Zone).
- LÓPESI Frota-Pessoa, 1947:213. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- MACULIPENNIS Malloch, 1926:33. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- METALLICA (Sturtevant), 1921:73 (*Drosophila*). Type-locality: Cuba, Bartle. Distr. — Cuba.
- MINUTA (Duda), 1925:182 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Brazil.
- MONTEI Frota-Pessoa, 1947:210. Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.
- NANA (Williston), 1896:416 (*Drosophila*). Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent), Panama.
- NIGRESCENS (Duda), 1925:184 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama, Nicaragua.
- NIGRIFRONS (Duda), 1925:184 (*Diathoneura*; as *nigrescens* var.). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama.
- NUBECULOSA (Duda), 1925:180 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama.
- OPACA (Williston), 1896:411 (*Drosophila*). Type-locality: West Indies, St. Vincent. Distr. — Puerto Rico, Jamaica, St. Vincent, ?Brazil.
- PARADOXA (Lamb), 1918:159 (*Drosophila*). Type-locality: Trinidad, St. Joseph. Distr. — Trinidad.
- PERUVIANA (Duda), 1927:96 (*Diathoneura*). Type-locality: Peru, Urubamba R. Distr. — Peru.



- FILIFRONS Frota-Pessoa, 1947:208. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- FLEUROLINEATA (Duda), 1925:183 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- PLUMATA (Duda), 1927:99 (*Diathoneura*). Type-locality: Bolivia, Mapiri, Sarampiuní. Distr. — Bolivia.
- QUADRIVITTATA (Duda), 1925:172 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- SPLENDIDA (Williston), 1896:412 (*Drosophila*). Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent), Costa Rica, Brazil.
- var. LUTEIPES Sturtevant, 1921:74 (in *Drosophila*). Type-locality: Cuba, Herradura. Distr. — Cuba.
- SUPERBA (Sturtevant), 1916:342 (*Drosophila*). Type-locality: Guatemala, Alta Vera Paz, Trece Aguas. Distr. — Guatemala, Honduras, El Salvador, Panama (Canal Zone), Colombia.
- TAENIATIPENNIS (Duda), 1925:172 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- TANYPTERA (Duda), 1925:170 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- TESSELLATA (Duda), 1925:174 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, ?Peru.
- TRAVASSOSI Frota-Pessoa, 1947:214. Type-locality: Brazil, Guanabara, Rio de Janeiro, Corcovado. Distr. — Brazil.
- TRISETA Malloch, 1924b:10. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica.
- UNIRADIATA (Duda), 1925:181 (*Diathoneura*). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.

#### Subgenus CALATILA Strand

- Macroptera* Duda, 1927:87 (preocc. Liroy, 1864). Type-species, *magnipennis* Duda (mon.).
- CALATILA Strand in Duda, 1927:87 (nom. nov. for *Macroptera* Duda). Type-species, *Diathoneura magnipennis* Duda (aut.).
- MAGNIPENNIS (Duda), 1927:100 (*Diathoneura*). Type-locality: Bolivia, Yungas. Distr. — Bolivia.

#### Genus DETTOPSOMYIA Lamb

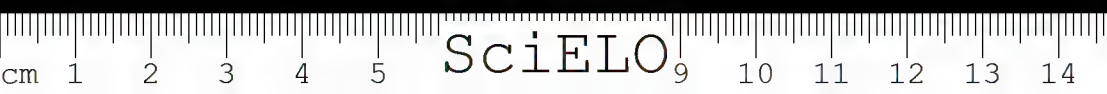
- DETTOPSOMYIA Lamb, 1914:349. Type-species, *formosa* Lamb (orig. des.).
- FORMOSA Lamb, 1914:350. Type-locality: "Seychelles". Distr. — Honduras, El Salvador, numerous Pacific island groups, Seychelles.

#### Genus DROSOPHILA Fallén

- DROSOPHILA Fallén, 1823:4. Type-species, *Musca funebris* Fabricius (Zetterstedt, 1847:2542).

#### Subgenus CHUSQUEOPHILA Brncic

- Drosophila*, subg. CHUSQUEOPHILA Brncic, 1957a:100. Type-species, *appendiculata* Malloch (orig. des.).



APPENDICULATA Malloch, 1934:441. Type-locality: Chile, Chiloé, Puntra.  
Distr. — Chile.

### Subgenus DORSILOPHA Sturtevant

*Drosophila*, subg. DORSILOPHA Sturtevant, 1942:28. Type-species, *busckii* Coquillett (orig. des.).

BUSCKII Coquillett, 1901b:18 (as *buskii*, *lapsus*). Type-locality: U.S.A., District of Columbia. Distr. — Cosmopolitan.

### Subgenus DROSOPHILA Fallén

ACRORIA Wheeler & Takada, 1962:404. Type-locality: Colombia, Bogotá, Tequendama Falls. Distr. — Columbia.

ACUTILABELLA Stalker, 1953:345. Type-locality: U.S.A., Florida. Distr. — Florida, Cuba, Haiti, Hispaniola, Jamaica.

ADDISONI Pavan, 1950:4. Type-locality: Brazil, Pará, Belem. Distr. — Brazil (Pará).

ALBESCENS Frota-Pessoa, 1954:281. Type-locality: Brazil, Guanabara, Rio de Janeiro, Gávea. Distr. — Brazil.

ALBICANS Frota-Pessoa, 1954:282. Type-locality: Brazil, São Paulo, Pirassununga. Distr. — Brazil.

ALBIROSTRIS Sturtevant, 1921:78. Type-locality: "Panama". Distr. — Panama.

ALBOMARGINATA Duda, 1927:173. Type-locality: Bolivia, Mapiri, Sarampiuní. Distr. — Bolivia.

ALDRICHI Patterson & Crow, 1940:251. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico, Costa Rica, El Salvador.

ALEXANDERAE Pipkin, 1964:234. Type-locality: Panama, Bocas del Toro, Almirante. Distr. — Panama.

ALTERNOLINEATA Duda, 1925:213. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Nicaragua, El Salvador, Panama.

ALTIPLANICA Brncic & Koref Santibañez, 1957:69. Type-locality: Bolivia, La Paz. Distr. — Bolivia.

AMPLIPENNIS Malloch, 1934:442. Type-locality: Argentina, Rio Negro, Lago Correntoso. Distr. — Argentina, Chile.

ANCEPS Patterson & Mainland, 1944:39. Type-locality: Mexico, Puebla, Petalcingo. Distr. — Mexico.

ANDINA Dobzhansky & Pavan, 1943:59. Type-locality: Peru, Huancayo. Distr. — Peru.

ANGUSTIBUCCA Duda, 1925:218. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama.

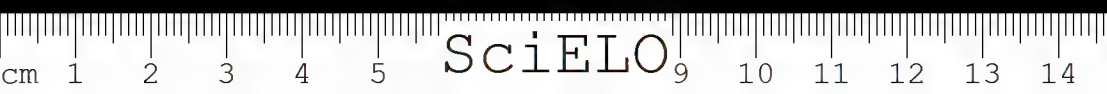
ANNULARIS Sturtevant, 1916:327 (nom. nov. for *annulata* Williston). Type-locality: West Indies, St. Vincent. Distr. — West Indies, Panama, Brazil, Bolivia, Peru.

*annulata* Williston, 1896:409 (preocc. Fallén, 1813). Type-locality: West Indies, St. Vincent.

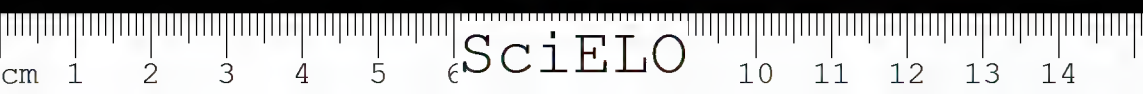
ANNULIMANA Duda, 1927:117. Type-locality: Bolivia, Mapiri, Sarampiuní. Distr. — Colombia, Brazil, Bolivia.



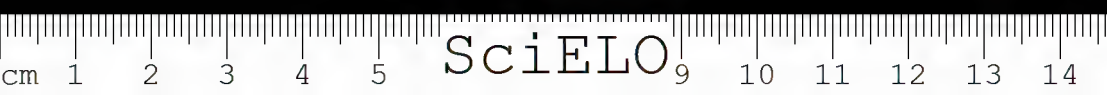
- ANTILLEA Heed, 1962:178. Type-locality: West Indies, St. Lucia. Distr. — West Indies (St. Lucia).
- ARACEA Heed & Wheeler, 1957:36. Type-locality: Nicaragua, Santa Maria de Ostuma. Distr. — El Salvador, Honduras, Nicaragua, Costa Rica, Panama.
- ARAICAS Pavan & Nacrur, 1950:264. Type-locality: Belém, Pará (not stated). Distr. — Brazil.
- ARAPUAN Cunha & Pavan *in* Pavan & Cunha, 1947:36. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- ARARAMA Pavan & Cunha, 1947:28. Type-locality: Brazil, São Paulo, Bertoga and São Sebastião. Distr. — Brazil.
- ARASSARI Cunha & Frota-Pessoa *in* Pavan & Cunha, 1947:32. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.
- ARAUCANA Brncic, 1957a:82. Type-locality: Chile, Puerto Montt. Distr. — Chile.
- ARAUNA Pavan & Nacrur, 1950:268. Type-locality: Brazil, São Paulo, Pirassununga. Distr. — Brazil.
- ARAWAKANA Heed, 1962:178. Type-locality: West Indies, Guadeloupe. Distr. — West Indies (Guadeloupe).  
ssp. KITTENSIS Heed, 1962:178. Type-locality: West Indies, St. Kitts. Distr. — West Indies (St. Kitts).
- ARGENTEIFRONS Wheeler, 1954:50. Type-locality: Mexico, Veracruz, San Andrés Tuxtla. Distr. — Mexico, Panama.
- ARIZONENSIS Patterson & Wheeler, 1942:96. Type-locality: U.S.A., Arizona. Distr. — U.S.A., Mexico.
- ATRATA Burla & Pavan, 1953:307. Type-locality: Brazil, São Paulo, Pirassununga. Distr. — Brazil.
- AUREA Patterson & Mainland, 1944:46. Type-locality: Mexico, Veracruz, Barranca de Metlac. Distr. — Mexico.
- AUREATA Wheeler, 1957:83. Type-locality: Costa Rica, San José. Distr. — Mexico, Costa Rica, El Salvador, Panama, Trinidad.
- AUREOPALLESSENS Pipkin, 1964:232. Type-locality: Panama, Canal Zone, Fort Sherman Reservation. Distr. — Panama (Canal Zone), Colombia.
- BANDEIRANTORUM Dobzhansky & Pavan, 1943:30. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Colombia, Brazil.
- BELLADUNNI Heed & Krishnamurthy, 1959:157. Type-locality: West Indies, Jamaica, Hardware Gap. Distr. — West Indies (Jamaica).
- BETARI Dobzhansky & Pavan, 1943:48. Type-locality: Brazil, São Paulo, Iporanga. Distr. — Brazil.
- BIFILUM Frota-Pessoa, 1954:284. Type-locality: Brazil, São Paulo, Vila Atlântica. Distr. — Brazil.
- BIFURCA Patterson & Wheeler, 1942:85. Type-locality: U.S.A., Texas. Distr. — U.S.A. (Texas), Mexico.
- BIPUNCTATA Patterson & Mainland *in* Patterson, 1943:194. Type-locality: Mexico, Michoacán, Cupatitzio Nat. Park. Distr. — Mexico.
- BLUMELAE Pipkin & Heed, 1964:267. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- BODEMANNAE Pipkin & Heed, 1964:257. Type-locality: Panama, Cerro Campana. Distr. — Panama.



- BOLETINA Duda, 1927:202. Type-locality: Mexico, "M. F. 298." Distr. — Mexico.
- BOLIVIANA Duda, 1927:198. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Bolivia.
- BRVICARINATA Patterson & Wheeler, 1942:88. Type-locality: Mexico, Nuevo León, San Josecito. Distr. — Mexico.
- BRIEGERI Pavan & Breuer, 1954:459. Type-locality: Brazil, São Paulo, Vila Atlântica. Distr. — Panama, Colombia, Brazil.
- BRNCICI Hunter & Hunter, 1964:733. Type-locality: Colombia, Bogotá. Distr. — Colombia.
- BROMELIAE Sturtevant, 1921:72. Type-locality: Cuba, Havana. Distr. — Cuba, Puerto Rico, Jamaica, Mexico (San Luis Potosí, Yucatán) to Colombia.
- EROMELIOIDES Pavan & Cunha, 1947:7. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- BRUNNEIPALPA Dobzhansky & Pavan, 1943:53. Type-locality: Brazil, São Paulo, Apiaí. Distr. — Brazil.
- BUZZATI Patterson & Wheeler, 1942:97. Type-locality: Argentina, Córdoba. Distr. — Argentina, Brazil, Bolivia; Australia, Italy, Lebanon.
- CALLOPTERA Schiner, 1868:239. Type-locality: "South America". Distr. — Mexico south to Brazil, Peru, Venezuela.
- tephritoptera* Hendel, 1936:95 (*Paramycodrosophila*). Type-locality: Brazil, Pará, Santarém, Faz. Taperinha.
- CAMARGOI Dobzhansky & Pavan in Pavan, 1950:6. Type-locality: Brazil, Pará, Belém. Distr. — Costa Rica, Panama, Guyana, Brazil.
- CAMARONENSIS Brncic, 1957a:95. Type-locality: Chile, Arica, Camarones. Distr. — Chile.
- CANALINEA Patterson & Mainland, 1944:50. Type-locality: Mexico, Veracruz, San Juan. Distr. — Mexico south to Brazil.
- CANALINIODES Wheeler, 1957:92. Type-locality: El Salvador, San Salvador. Distr. — Costa Rica, El Salvador, Panama, Canal Zone, Venezuela.
- CANAPALPA Patterson & Mainland, 1944:40. Type-locality: Mexico, Hidalgo, La Placita. Distr. — Mexico.
- CAPONEI Pavan & Cunha, 1947:4. Type-locality: Brazil, São Paulo, Vila Atlântica, Itanhaem, Peruibe, Bertioga. Distr. — Brazil.
- CARBONARIA Patterson & Wheeler, 1942:103. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- CARCINOPHILA Wheeler, 1960b:208. Type-locality: Puerto Rico, Mona I. Distr. — West Indies (Puerto Rico, Montserrat). Ref. — Carson, 1967 (association with land crabs).
- CARDINI Sturtevant, 1916:336. Type-locality: Cuba, Havana. Distr. — Widespread, Mexico and West Indies south to Bolivia and Peru. Ref. — Futch, 1962.
- CARDINOIDES Dobzhansky & Pavan, 1943:21. Type-locality: Brazil, São Paulo, Iporanga. Distr. — Mexico, Costa Rica, El Salvador, Panama, Colombia, Brazil, Chile.
- CARIBIANA Heed, 1962:179. Type-locality: West Indies, Martinique. Distr. — West Indies (Martinique).



- CASTANEA Patterson & Mainland, 1944:51. Type-locality: Mexico, Veracruz, Sedeño Cañon. Distr. — Mexico, Costa Rica, El Salvador, Colombia, Venezuela. Ref. — Wheeler, 1957.
- COMOSA Wheeler, 1968:432. Type-locality: Costa Rica, Golfito. Distr. — Costa Rica.
- CONVERGA Heed & Wheeler, 1957:22. Type-locality: Costa Rica, San José. Distr. — Costa Rica, El Salvador, Nicaragua, Honduras, Panama, Colombia, Trinidad.
- COROICA Wasserman, 1962d:125. Type-locality: Bolivia, Coroico. Distr. — Bolivia.
- CRASSA Patterson & Mainland, 1944:52. Type-locality: Mexico, Veracruz, Barranca de Metlac. Distr. — Mexico.
- CROCINA Patterson & Mainland, 1944:34. Type-locality: Mexico, Veracruz, Córdoba. Distr. — Puerto Rico, Jamaica, Mexico, El Salvador, Costa Rica, Panama, Colombia, Trinidad, Brazil.
- campestris* Burla in Pavan, 1950:9. Type-locality: Brazil, São Paulo, Pirassununga.
- CROSSOPTERA Wheeler & Takada, 1962:404. Type-locality: Panama, Bocas del Toro, Almirante. Distr. — Panama, Colombia.
- CURVAPEX Frota-Pessoa, 1954:296. Type-locality: Brazil, Rio Grande do Sul, Feliz. Distr. — Brazil.
- DESERTORUM Wasserman, 1962c:95. Type-locality: Mexico, Puebla, Pachuca. Distr. — Mexico.
- DIVISA Duda, 1927:187. Type-locality: Bolivia, Mapiri, Sarampiuni, and Yungas; Peru, Paso de Lares. Distr. — Bolivia, Peru.
- DREYFUSI Dobzhansky & Pavan, 1943:61. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Brazil.
- DUNNI Townsend & Wheeler, 1955:61. Type-locality: West Indies, Puerto Rico, Rio Piedras. Distr. — West Indies.
- ssp. THOMASENSIS* Heed, 1962:179. Type-locality: West Indies, St. Thomas. Distr. — West Indies (St. Thomas).
- ENDOBRANCHIA Carson & Wheeler, 1968:675. Type-locality: West Indies, Grand Cayman I., Conch Point. Distr. — West Indies (Grand Cayman I., Little Cayman I., ?Cuba).
- EOHYDEI Wasserman, 1962b:73. Type-locality: Colombia, Bucaramanga. Distr. — Honduras, El Salvador, Panama, Colombia.
- EREMOPHILA Wasserman, 1962c:94. Type-locality: Mexico, Puebla, Acatlán. Distr. — Mexico.
- FACIALBA Heed & Wheeler, 1957:19. Type-locality: El Salvador, Volcán El Boquerón. Distr. — Mexico, Costa Rica, Nicaragua, El Salvador.
- FAIRCHILD Pipkin & Heed, 1964:269. Type-locality: Panama, Chiriqui, El Volcán. Distr. — Panama.
- FASCIOLA Williston, 1896:410. Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent, St. Lucia, Martinique), El Salvador, Panama, Guiana. Ref. — Wasserman, 1962d.
- FASCIOLOIDES Dobzhansky & Pavan, 1943:42. Type-locality: Brazil, São Paulo, Bertioga. Distr. — Costa Rica, Honduras, Panama (Canal Zone), Colombia, Ecuador, Brazil.

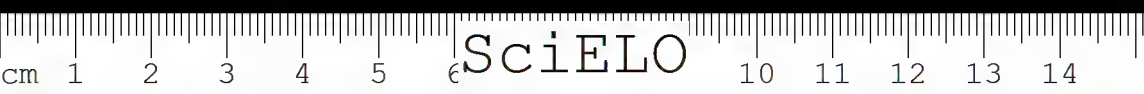


- FLAVOLINEATA Duda, 1927:157. Type-locality: Bolivia, Mapiri, Sarampiuni. Distr. — Brazil, Bolivia.
- FLAVOPILOSA Frey, 1918:14. Type-locality: Chile, Valparaiso. Distr. — Chile, Bolivia, Peru, Uruguay, Argentina.
- dentata* Duda, 1927:201. Type-locality: Bolivia, La Paz; Chile, Los Andes; and Peru, Cuzco.
- tendata* Wheeler, 1959a:183 (nom. nov. for *dentata* Duda). Type-locality: Bolivia, La Paz; Chile, Los Andes; and Peru, Cuzco.
- FRAGILIS Wheeler, 1949a:191. Type-locality: Mexico, Puebla, Atlitxco. Distr. — Mexico, El Salvador, Panama.
- FULVALINEATA Patterson & Wheeler, 1942:106. Type-locality: U.S.A., Arizona. Distr. — U.S.A., Mexico. Ref. — Wasserman, 1962d.
- FULVIMACULA Patterson & Mainland, 1944:42. Type-locality: Mexico, Veracruz, Sedeño Cañon. Distr. — Mexico, El Salvador, Honduras, Panama (Canal Zone), Colombia, Brazil.
- ssp. FLAVOREPLETA Patterson & Pavan in Patterson, 1952:114. Type-locality: Brazil, Pará, Belém. Distr. — Brazil.
- FULVIMACULOIDES Wasserman & Wilson, 1957:137. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica, El Salvador, Nicaragua.
- FUMOSA Pavan & Cunha, 1947:14. Type-locality: Brazil, São Paulo: Iporanga, Araras, and Itanhaem. Distr. — Brazil.
- FUNDOMACULATA Duda, 1925:209. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- FUNEBRIS (Fabricius), 1787:345 (*Musca*). Type-locality: "Europe". Distr. — Cosmopolitan.
- dudai* Malloch, 1934:444. Type-locality: Chile, Angol.
- FUSCIPENNIS Duda, 1927:198. Type-locality: Peru, Urubamba R. Distr. — Peru.
- FUSCOLINEATA Duda, 1925:213. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, El Salvador.
- GASICI Brncic, 1957a:92. Type-locality: Chile, Arica, Camarones. Distr. — Chile, Colombia. Ref. — Hunter, 1966.
- GAUCHA Jaeger & Salzano, 1953:205. Type-locality: Brazil, Rio Grande do Sul, Muitos Capões. Distr. — Brazil, Argentina.
- GENTICA Wheeler & Takada, 1962:406. Type-locality: El Salvador, San Salvador. Distr. — El Salvador.
- GIBBEROSA Patterson & Mainland in Patterson, 1943:195. Type-locality: Mexico, Michoacán, Cupatitzio. Distr. — Mexico.
- GIGAS Duda, 1925:216. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Honduras, Nicaragua, El Salvador, Panama.
- GREERAE Pipkin & Heed, 1964:260. Type-locality: Panama, Canal Zone, Madden Forest. Distr. — Panama (Canal Zone).
- GRISEOLINEATA Duda, 1927:161. Type-locality: Bolivia, Mapiri, and Brazil, Rio de Janeiro, Petrópolis. Distr. — Colombia, Brazil, Bolivia.
- GUARAJA King, 1947:48. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.
- pulla* Pavan & Cunha, 1947:10. Type-locality: Brazil, São Paulo: Iporanga, Mogi das Cruzes, São Sebastião, and Paraná: Lamberdor.

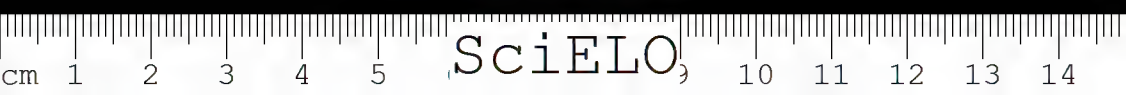


- GUARAMUNU Dobzhansky & Pavan, 1943:39. Type-locality: Brazil, São Paulo, Amália. Distr. — Brazil.
- GUARANI Dobzhansky & Pavan, 1943:36. Type-locality: Brazil, São Paulo, Cantareira. Distr. — Brazil.
- GUARU Dobzhansky & Pavan, 1943:37. Type-locality: Brazil, São Paulo, Amália. Distr. — Brazil.
- HAMATOFILA Patterson & Wheeler, 1942:91. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- HANSONI Pipkin, 1964:227. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- HANSONIODES Pipkin, 1966:4. Type-locality: Colombia, Rio Raposo. Distr. — Colombia (Rio Raposo).
- HEXASTIGMA Patterson & Mainland, 1944:43. Type-locality: Mexico, Puebla, Petlalcingo. Distr. — Mexico.
- HUILLICHE Brncic, 1957a:85. Type-locality: Chile, Valdivia, Angachilla. Distr. — Chile.
- HYALIPENNIS Duda, 1927:119. Type-locality: Peru, Cuzco. Distr. — Peru.
- HYDEI Sturtevant, 1921:101. Type-locality: U.S.A., Florida. Distr. — Cosmopolitan.
- setosa* Dobzhansky & Pavan, 1943:46. Type-locality: Brazil, São Paulo, Mogi das Cruzes.
- HYDEOIDES Patterson & Wheeler, 1942:84. Type-locality: Mexico, Nuevo León, San Josecito. Distr. — Mexico.
- ICTEROSCUA Wheeler, 1949a:184. Type-locality: Mexico, Michoacán, Morelia. Distr. — Mexico.
- IMMIGRANS Sturtevant, 1921:83. Type-locality: U.S.A., New York. Distr. — Cosmopolitan.
- flexipilosa* Pipkin, 1964:238. Type-locality: Panama, Chiriqui, El Volcán.
- INCA Dobzhansky & Pavan, 1943:44. Type-locality: Peru, Huancayo. Distr. — Peru.
- INCOMPTA Wheeler & Takada, 1962:408. Type-locality: Panama, Bocas del Toro, Almirante. Distr. — West Indies (Dominica), Mexico, Panama, Colombia.
- INNUBILA Spencer in Patterson, 1943:94. Type-locality: U.S.A., Arizona, New Mexico; Mexico, Chihuahua, Michoacán. Distr. — U.S.A., Mexico.
- JOHNSTONAE Pipkin & Heed, 1964:265. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- KALLIMA Wheeler, 1957:87. Type-locality: Nicaragua, Santa Maria de Osumtuma. Distr. — Nicaragua, Panama.
- KRUGI Pavan & Breuer, 1954:462. Type-locality: Brazil, São Paulo, São Paulo, Horto Florestal da Cantareira. Distr. — Brazil.
- LAUTA Wheeler & Takada, 1962:403. Type-locality: Haiti, Kenscoff Pines. Distr. — Haiti.
- LEONIS Patterson & Wheeler, 1942:82. Type-locality: Mexico, Nuevo León, San Josecito. Distr. — Mexico.

- LETICIAE** Pipkin, 1967:111. Type-locality: Colombia, Amazonas, Leticia, El Marco. Distr. — Colombia.
- LEUKORRHINA** Pipkin, 1964:224. Type-locality: Panama, Canal Zone, Madden Forest. Distr. — Panama (Canal Zone).
- LIMBINERVIS** Duda, 1925:215. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Honduras, El Salvador.
- LIMBIVENTRIS** Duda, 1925:212. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- LIMENSIS** Pavan & Patterson in Pavan & Cunha, 1947:26. Type-locality: Peru, Lima. Distr. — Brazil, Peru.
- LINDAE** Wheeler, 1968:431. Type-locality: Colombia, Cauca, Popayán. Distr. — Colombia, Bolivia, Peru.
- LINEAREPLETA** Patterson & Wheeler, 1942:79. Type-locality: Guatemala, Antigua. Distr. — Mexico, Guatemala.
- LONGICORNIS** Patterson & Wheeler, 1942:90. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- LUGUBRIPENNIS** Duda, 1927:199. Type-locality: Peru, Paso de Lares. Distr. — Peru.
- MACROPOLIA** Patterson & Mainland, 1944:54. Type-locality: Mexico, Distrito Federal, El Desierto de los Leones. Distr. — Mexico.
- MACROPTERA** Patterson & Wheeler, 1942:105. Type-locality: U.S.A., Colorado. Distr. — U.S.A., Mexico.
- MACROSPINA** Stalker & Spencer, 1939:110. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- ssp. **LIMPIENSIS** Mainland, 1941:160. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- MAGNABADIA** Patterson & Mainland in Patterson, 1943:196. Type-locality: Mexico, Distrito Federal, El Desierto de los Leones. Distr. — Mexico.
- MARACAYA** Wheeler, 1957:88. Type-locality: Venezuela, Maracay. Distr. — Venezuela.
- MARTENSIS** Wasserman & Wilson, 1957:151. Type-locality: Colombia, Santa Marta. Distr. — Colombia, Venezuela.
- MCCINTOCKAE** Pipkin, 1964:228. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- MEDIOCRIS** Frota-Pessoa, 1954:275. Type-locality: Brazil, Amazonas, Rio Negro. Distr. — Panama, Brazil.
- MEDIODELTA** Heed & Wheeler, 1957:21. Type-locality: Colombia, El Recuerdo. Distr. — Costa Rica, El Salvador, Nicaragua, Panama, Colombia.
- MEDIODIFFUSA** Heed & Wheeler, 1957:27. Type-locality: Puerto Rico, El Yunque. Distr. — West Indies (Puerto Rico, Haiti, Jamaica).
- MEDIOLIMPRESSA** Frota-Pessoa, 1954:300. Type-locality: Brazil, Minas Gerais, Montes Claros. Distr. — Brazil.
- MEDIONOTATA** Frota-Pessoa, 1954:288. Type-locality: Brazil, São Paulo, Vila Atlântica. Distr. — Panama, Brazil.
- MEDIOOBSCURATA** Duda, 1925:217. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.



- MEDIOPARVA Heed & Wheeler, 1957:28. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica, Panama, Colombia.
- MEDIOPICTA Frota-Pessoa, 1954:290. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Panama, Brazil.
- MEDIOPICTOIDES Heed & Wheeler, 1957:24. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica, Panama, Colombia.
- MEDIOPUNCTATA Dobzhansky & Pavan, 1943:26. Type-locality: Brazil, São Paulo, Itanhaem. Distr. — Brazil.
- MEDIOSIGNATA Dobzhansky & Pavan, 1943:24. Type-locality: Brazil, São Paulo, Apiaí. Distr. — Brazil.
- MEDIOSTRIATA Duda, 1925:223. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama, Colombia, Venezuela, Trinidad, Brazil, Bolivia.
- MEDIOVITTATA Frota-Pessoa, 1954:280. Type-locality: Brazil, Guanabara, Rio de Janeiro, Gávea. Distr. — Brazil.
- MELANICA Sturtevant, 1916:332. Type-locality: U.S.A., Alabama. Distr. — U.S.A., Mexico.
- MELANOPALPA Patterson & Wheeler, 1942:77. Type-locality: U.S.A., Arizona. Distr. — U.S.A., Mexico.
- MELINA Wheeler, 1962:246 (nom. nov. for *gilva* Wheeler & Takada). Type-locality: West Indies, St. Lucia. Distr. — West Indies (St. Lucia), Panama, Colombia.
- gilva* Wheeler & Takada, 1962:407 (preocc. Burla, 1956). Type-locality: West Indies, St. Lucia.
- MERCATORUM Patterson & Wheeler, 1942:93. Type-locality: U.S.A., California. Distr. — U.S.A., Mexico, El Salvador, Colombia, Brazil, Chile, Peru, Bolivia. Ref. — Wasserman, 1962a.
- ssp. PARAREPLETA Dobzhansky & Pavan, 1943:52. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Brazil, ?Chile.
- MERIDIANA Patterson & Wheeler, 1942:99. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- ssp. RIOENSIS Patterson, 1943:152. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- MERIDIONALIS Wasserman, 1962c:88. Type-locality: Brazil, Rio de Janeiro, Angra dos Reis. Distr. — Brazil.
- MESOPHRAGMATICA Duda, 1927:205. Type-locality: Peru, Cuzco, and Bolivia, La Paz. Distr. — Colombia, Brazil, Peru, Bolivia. Ref. — Nacur, 1958 (male genitalia); Hunter & Hunter, 1964 (distribution).
- MESOSTIGMA Frota-Pessoa, 1954:269. Type-locality: Brazil, Pará, Belém. Distr. — Brazil.
- METZII Sturtevant, 1921:78. Type-locality: Cuba, Herradura. Distr. — West Indies, Mexico, Costa Rica, El Salvador, Panama, Colombia, Trinidad. Ref. — Pipkin, 1968.
- MICROMELANICA Patterson, 1941:394. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.
- MIRASOLENSIS Mourão & Gallo, 1967:118. Type-locality: Brazil, São Paulo, Mirassol. Distr. — Brazil.
- MOJAVENSIS Patterson & Crow, 1940:251. Type-locality: U.S.A., California. Distr. — U.S.A., Mexico.



- MOJU Pavan, 1950:19. Type-locality: Brazil, Pará, Belém. Distr. — Costa Rica, Panama (Canal Zone), Colombia, Brazil, Bolivia.
- MOJUOIDES Wasserman, 1962d:121. Type-locality: Trinidad, Arima Valley. Distr. — Trinidad.
- MORENA Frota-Pessoa, 1954:283. Type-locality: Brazil, Rio Grande do Sul, Feliz. Distr. — Brazil.
- MULLERI Sturtevant, 1921:101. Type-locality: U.S.A., Texas. Distr. — U.S.A., West Indies (Cuba, Jamaica), Mexico.
- MUNDA Spencer, 1942:58. Type-locality: U.S.A., New Mexico. Distr. — U.S.A., Mexico.
- NANNOPTERA Wheeler, 1949a:177. Type-locality: Mexico, Oaxaca. Distr. — Mexico. Ref. — Throckmorton, 1962:208.
- NEOCARDINI Streisinger, 1946:11. Type-locality: Brazil, Amazonas, Tefé. Distr. — Colombia, Brazil.
- ssp. MOURENSIS Cunha, 1955:119. Type-locality: Brazil, Amazonas, Moura. Distr. — Brazil.
- ssp. ITAMBACURIENSIS Cunha, 1955:119. Type-locality: Brazil, Minas Gerais, Itambacuri. Distr. — Brazil.
- NEOCHRACEA Wheeler, 1959a:183 (n. sp. nov. for *ochracea* Duda). Type-locality: Bolivia, Mapiro. Distr. — Bolivia.
- ochracea* Duda, 1927:195 (preocc. Grimshaw, 1901). Type-locality: Bolivia, Mapiro.
- NEOGUARAMUNU Frydenberg, 1956a:57. Type-locality: Peru, Tingo Maria. Distr. — Peru.
- NEOHYDEI Wasserman, 1962b:75. Type-locality: Venezuela, Carpentaro. Distr. — Venezuela.
- NEOMORPHA Heed & Wheeler, 1957:33. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Mexico, Honduras, Panama (Canal Zone), Trinidad.
- NEOREPLETA Patterson & Wheeler, 1942:78. Type-locality: Guatemala, Sacapulas. Distr. — Guatemala.
- NEZIOTA Wheeler & Takada, 1962:409. Type-locality: Haiti, Petionville. Distr. — Haiti.
- NIGRASPLENDENS Pipkin, 1964:217. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- NIGRICINCTA Frota-Pessoa, 1954:289. Type-locality: Brazil, São Paulo, Cantareira. Distr. — Panama, Brazil.
- NIGRICRURIA Patterson & Mainland in Patterson, 1943:136. Type-locality: Mexico, Jalisco, El Medinena. Distr. — Mexico, Costa Rica, El Salvador, Colombia, Venezuela, Chile, Peru.
- hoeckeri* Brncic, 1957a:76. Type-locality: Chile, Arica, Azapa.
- NIGRODUNNI Heed & Wheeler, 1957:35. Type-locality: West Indies, Barbados. Distr. — West Indies (Barbados).
- NIGROHYDEI Patterson & Wheeler, 1942:84. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico, Guatemala.
- NIGROSPIRACULA Patterson & Wheeler, 1942:81. Type-locality: U.S.A., Arizona. Distr. — U.S.A., Mexico.
- NOVEMARISTATA Dobzhansky & Pavan, 1943:55. Type-locality: Peru, Huancaayo. Distr. — Peru.
- NUBILUNA Wheeler, 1949a:188. Type-locality: Mexico, Michoacán, Morelia. Distr. — Mexico.





- OCCIDENTALIS Spencer, 1942:60. Type-locality: U.S.A., California. Distr. — U.S.A., Mexico.
- ONCA Dobzhansky & Pavan, 1943:40. Type-locality: Brazil, São Paulo, Iporanga. Distr. — Brazil.
- ORKUI Brncic & Koref Santibañez, 1957:69. Type-locality: Peru, Cuzco. Distr. — Peru.
- ORNATIPENNIS Williston, 1896:407. Type-locality: West Indies, St. Vincent. Distr. — West Indies (Cuba, Jamaica, Puerto Rico, Haiti, St. Kitts, St. Lucia, St. Vincent).
- OSORNINA Brncic, 1957a:97. Type-locality: Chile, Llanquihue, Ensenada. Distr. — Chile.
- OTHONI Pipkin, 1964:236. Type-locality: Panama, Darien, El Real. Distr. — Panama.
- PACHEA Patterson & Wheeler, 1942:87. Type-locality: Mexico, Sonora, Hermosillo. Distr. — U.S.A., Mexico.
- PACHUCA Wasserman, 1962c:95. Type-locality: Mexico, Puebla, Pachuca. Distr. — Mexico.
- PALLIDIPENNIS Dobzhansky & Pavan, 1943:32. Type-locality: Brazil, São Paulo, Iporanga. Distr. — Mexico, El Salvador, Panama, Colombia, Brazil, Peru. Ref. — Frydenberg, 1956b.
- ssp. CENTRALIS Patterson & Mainland, 1944:57. Type-locality: Mexico, Veracruz, Sedeño Cañon. Distr. — Mexico, El Salvador, Panama, Colombia.
- PANAMENSIS Malloch, 1926:28. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).
- PARA Pavan & Burla in Pavan, 1950:22. Type-locality: Brazil, Pará, Belém. Distr. — Trinidad, Brazil.
- PARACANALINEA Wheeler, 1957:93. Type-locality: Puerto Rico, El Yunque. Distr. — Puerto Rico.
- PARACHROGASTER Patterson & Mainland in Patterson, 1943:197. Type-locality: Mexico, Michoacán, Laguna Pátzcuaro. Distr. — Mexico.
- PARAGUAYENSIS Duda, 1927:185. Type-locality: Paraguay, Hohenau. Distr. — Paraguay, Brazil.
- PARAGUTTATA Thompson in Wheeler, 1957:98. Type-locality: West Indies, Jamaica. Distr. — West Indies (Jamaica). Ref. — Wasserman, 1962d.
- PARAMEDIOTRIATA Townsend & Wheeler, 1955:62. Type-locality: Puerto Rico, Rio Piedras. Distr. — Cuba, Puerto Rico.
- PARANAENSIS Dreyfus & Barros, 1948:12. Type-locality: not stated [Paraná, Brazil is implied]. Distr. — Mexico, Costa Rica, Nicaragua, El Salvador, Panama, Colombia, Trinidad, Brazil. Ref. — Wasserman, 1962a.
- PARTHENOGENETICA Stalker, 1953:347. Type-locality: Mexico, Atlixco. Distr. — Mexico, Nicaragua, Trinidad.
- PAVANI Brncic, 1957a:88. Type-locality: Chile (numerous localities are listed). Distr. — Chile, Argentina.
- PEGASA Wasserman, 1962c:94. Type-locality: Mexico, Puebla, Pachuca. Distr. — Mexico.

- PELLEWAE Pipkin & Heed, 1964:263. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone), Colombia. Ref. — Pipkin, 1968.
- PENINSULARIS Patterson & Wheeler, 1942:92. Type-locality: U.S.A., Florida. Distr. — U.S.A., Puerto Rico.
- PERUVIANA Duda, 1927:204. Type-locality: Peru, Urubamba R. Distr. — Brazil, Peru.
- PICTILIS Wasserman, 1962d:125. Type-locality: El Salvador, Lago Pichichuela. Distr. — El Salvador.
- PICTURA Wasserman, 1962d:121. Type-locality: Trinidad, Port of Spain. Distr. — Trinidad, Bolivia.
- PLATITARSUS Frota-Pessoa, 1954:176. Type-locality: Brazil, Guanabara, Rio de Janeiro. Distr. — Brazil.
- POLLINOSPADIX Patterson & Mainland, 1944:55. Type-locality: Mexico, Hidalgo, Pachuca. Distr. — Mexico.
- POLYCHAETA Patterson & Wheeler, 1942:102. Type-locality: U.S.A., Texas. Distr. — U.S.A., Costa Rica, Panama, Brazil, several Pacific Islands.
- POLYMORPHA Dobzhansky & Pavan, 1943:19. Type-locality: Brazil, São Paulo, Bertioga. Distr. — Guatemala, Panama, Trinidad, Brazil.
- PONDEROSA Patterson & Mainland in Patterson, 1943:198. Type-locality: Mexico, Federal District, El Desierto de los Leones. Distr. — Mexico.
- PROCARDINOIDES Frydenberg, 1956a:60. Type-locality: Peru, Urubamba River, Huadquina. Distr. — Peru, Bolivia.
- PROMERIDIANA Wasserman, 1962c:94. Type-locality: Colombia, Palmira. Distr. — Colombia.
- PROPACHUCA Wasserman, 1962c:95. Type-locality: Mexico, Puebla, Pachuca. Distr. — Mexico.
- PROSIMILIS Duda, 1927:194. Type-locality: Peru, Urubamba R. and Pichís; Bolivia, Mapiri. Distr. — Brazil, Peru, Bolivia.
- PRUINIFACIES Frota-Pessoa, 1954:292. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Brazil.
- QUADRUNGULUM (Wiedemann), 1830b:507 (*Trypeta*). Type-locality: "Brazil". Distr. — Brazil, Venezuela, Peru.
- RACEMOVA Patterson & Mainland, 1944:44. Type-locality: Mexico, Hidalgo, Jacala. Distr. — Mexico.
- RAMSDENI Sturtevant, 1916:328. Type-locality: Cuba, Guantánamo. Distr. — Cuba.
- REPLETA Wollaston, 1858:117. Type-locality: Madeira I. Distr. — Cosmopolitan.
- punctulata* Loew, 1862:232. Type-locality: "Cuba".
- austrorepleta* Dobzhansky & Pavan, 1943:50. Type-locality: Brazil, São Paulo, Mogi das Cruzes.
- var. *PROREPLETA* Duda, 1925:210. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- RITAE Patterson & Wheeler, 1942:87. Type-locality: U.S.A., Texas. Distr. — U.S.A., Mexico.

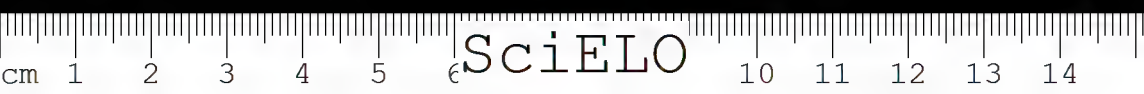


- ROEHRAE Pipkin & Heed, 1964:270. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- ROSTRATA Duda, 1925:219. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica. Ref. — Wheeler, 1963.
- RUBRIFRONS Patterson & Wheeler, 1942:107. Type-locality: U.S.A., Arizona. Distr. — U.S.A., Mexico.
- SCHILDI Malloch, 1924b:10. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica, Panama, Venezuela, Colombia, Trinidad, Brazil.
- poeciloptera* Duda, 1925:226 (*Paramycodrosophila*). Type-locality: Costa Rica, Suiza de Turrialba.
- poecila* Burla & Pavan, 1953:311. Type-locality: not listed.
- SERENENSIS Brncic, 1957a:78. Type-locality: Chile, La Serena, Coquimbo. Distr. — Chile.
- SETAPEX Patterson & Mainland, 1944:55. Type-locality: Mexico, Morelos, Alpuyecá. Distr. — Mexico.
- SETULA Heed & Wheeler, 1957:18. Type-locality: Colombia, Fusagasugá. Distr. — Costa Rica, Panama, Colombia, Trinidad.
- SIMILIS Williston, 1896:415. Type-locality: West Indies, St. Vincent. Distr. — West Indies (Cuba, Haiti, Jamaica, St. Vincent, Barbados), Mexico, Honduras, Panama, Trinidad, ?Peru, ?Bolivia.
- ssp. GRENADENSIS Heed, 1962:178. Type-locality: West Indies, Grenada. Distr. — West Indies (Grenada).
- SPADICIFRONS Patterson & Mainland, 1944:49. Type-locality: Mexico, Michoacán, Mil Cumbres. Distr. — Mexico.
- SPENCERI Patterson, 1943:160. Type-locality: Mexico, Morelos, Rio Chalma. Distr. — Mexico.
- SPINATERMINA Heed & Wheeler, 1957:30. Type-locality: Trinidad, Port of Spain. Distr. — Trinidad.
- STICTA Wheeler, 1957:96. Type-locality: Honduras, Lancetilla. Distr. — El Salvador, Honduras, Nicaragua, Panama, Colombia.
- SUBBADIA Patterson & Mainland in Patterson, 1943:198. Type-locality: Mexico, Michoacán, Laguna Pátzcuaro and Cupatitzio Natl. Park. Distr. — Mexico.
- SUBMACROPTERA Patterson & Mainland in Patterson, 1943:186. Type-locality: Mexico, Taxco. Distr. — Mexico.
- SUBOCCIDENTALIS Spencer, 1942:61. Type-locality: not listed. Distr. — U.S.A. (Idaho, Utah, Wyoming, Colorado, So. Dakota), Mexico.
- SUBVIRIDIS Patterson & Mainland in Patterson, 1943:140. Type-locality: Mexico, Mexico City. Distr. — Mexico.
- SUCHEAE Pipkin & Heed, 1964:262. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- TALAMANCANA Wheeler, 1968:438 (nom. nov. for *punctipennis* Duda). Type-locality: Costa Rica, San José. Distr. — Costa Rica, El Salvador, Panama (Canal Zone).
- punctipennis* Duda, 1927:104 (*Paramycodrosophila*; preocc. Wulp, 1886). Type-locality: Costa Rica, San José.
- TENEBROSA Spencer in Patterson, 1943:93. Type-locality: U.S.A., New Mexico. Distr. — U.S.A., Mexico.

- TRANQUILLA Spencer in Patterson, 1943:200. Type-locality: Mexico, Chi-Distr. — Mexico.
- TIRA Wasserman, 1962c:96. Type-locality: Mexico, Mexico City, 25 mi. E. huahua, Santa Clara Mts. Distr. — Mexico.
- TRAPEZA Heed & Wheeler, 1957:25. Type-locality: Costa Rica, La Lola. Distr. — Mexico, Costa Rica, Honduras, Nicaragua, El Salvador, Panama, Colombia, Venezuela, Trinidad.
- TRIANGULA Wheeler, 1949a:192. Type-locality: Mexico, Michoacán, Morelia. Distr. — Mexico.
- TRIANGULINA Duda, 1927:186. Type-locality: Peru, Paso de Lares. Distr. — Peru.
- TRIFILOIDES Wheeler, 1957:81. Type-locality: Colombia, Bucaramanga, Rionegro. Distr. — Honduras, Colombia.
- TRIFILUM Frota-Pessoa, 1954:292. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Brazil.
- TRISTRIATA Heed & Wheeler, 1957:31. Type-locality: Trinidad, Port of Spain. Distr. — West Indies (Puerto Rico, Jamaica), El Salvador, Honduras, Trinidad.
- TUCHAUA Pavan, 1950:26. Type-locality: Brazil, Pará, Belém. Distr. — Mexico (Uruapán), Brazil.
- UNIPUNCTATA Patterson & Mainland in Patterson, 1943:182. Type-locality: Mexico, San Luis Potosí, Tamazunchale. Distr. — Mexico, Costa Rica, Panama, Colombia, Venezuela.
- UNINUBES Patterson & Mainland in Patterson, 1943:201. Type-locality: Mexico, Michoacán, Laguna Pátzcuaro. Distr. — Mexico.
- VIRACOCI Brncic & Koref Santibañez, 1957:70. Type-locality: Peru, Machu Picchu. Distr. — Colombia, Peru.
- VIRILIS Stutervant, 1916:330. Type-locality: U.S.A., New York. Distr. — U.S.A., Mexico, Colombia, Chile, Brazil, Argentina; Japan, China.
- WHARTONAE Pipkin & Heed, 1964:259. Type-locality: Panama, Cerro Campana. Distr. — Panama.
- WHEELERI Patterson & Alexander, 1952:129. Type-locality: U.S.A., California. Distr. — U.S.A., Mexico.
- WINGEI Cordeiro, 1964:1. Type-locality: Brazil, Rio Grande do Sul, Colônia São Pedro Alcântara. Distr. — Brazil.
- XANTHOPALLESCEUS Pipkin, 1964:230. Type-locality: Panama, Cerro Campana. Distr. — Panama.

#### Subgenus HIRTODROSOPHILA Duda

- Drosophila*, subg. HIRTODROSOPHILA Duda, 1923:41. Type-species, *carinata* Duda (Frota-Pessoa, 1945:470) = *latifrontata* Frota-Pessoa.
- Drosophila*, subg. *Dasydrosophila* Duda, 1925:152 (unnecessary nom. nov. for *Hirtodrosophila* Duda) (aut.) = *latifrontata* Frota-Pessoa. Ref. — Frota-Pessoa, 1945.
- CAXIENSIS Cordeiro, 1952:304. Type-locality: Brazil, Rio Grande do Sul, Caxias do Sul. Distr. — Brazil.
- CLYPEATA Wheeler, 1968:432. Type-locality: Panama, Canal Zone, Barro Colorado I. Distr. — Panama (Canal Zone).





- CLYPEORA Wheeler, 1968:433. Type-locality: Costa Rica, La Lola. Distr. — Costa Rica.
- FLAVOHALTERATA Duda, 1925:198. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- FUSCOHALTERATA Duda, 1925:197. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- GILVA Burla, 1956:263. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- GLABRIFRONS Duda, 1925:196. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Bolivia, Peru.
- JORDANENSIS Frota-Pessoa, 1945:473. Type-locality: Brazil, São Paulo, Campos do Jordão. Distr. — Brazil.
- KUSCHELI Brncic, 1957b:394. Type-locality: Chile, Juan Fernandez Is., Masatierra, Mirador de Selkirk. Distr. — Juan Fernandez Is.
- LEVIGATA Burla, 1956:261. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- LONGALA Patterson & Wheeler, 1942:71. Type-locality: U.S.A., New Mexico. Distr. — U.S.A., Mexico.
- MAGNARCUS Frota-Pessoa, 1951:407. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Brazil.
- MENDELI Mourão, Gallo & Bicudo, 1965:578 (description without heading), figs. 2.1-2.6. Type-locality: Brazil, São Paulo: Mirassol and São José do Rio Preto. Distr. — Brazil.
- MEXICOA Wheeler, 1954:54 (nom. nov. for *mexicana* Wheeler). Type-locality: Mexico, Michoacán, Jacona. Distr. — Mexico, Nicaragua, El Salvador.
- mexicana* Wheeler, 1949a:164 (*Paramycodrosophila*; preocc. Macquart, 1843). Type-locality: Mexico, Michoacán, Jacona.
- MORGANI Mourão, Gallo & Bicudo, 1967:160. Type-locality: Brazil, São Paulo, Mirassol. Distr. — Brazil.
- NARINOSA Frota-Pessoa, 1945:476 (nom. nov. for *nasalis* Duda). Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- nasalis* Duda, 1925:194 (preocc. Grimshaw, 1901). Type-locality: Costa Rica, Suiza de Turrialba.
- NIGROHALTERATA Duda, 1925:195. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — U.S.A., Mexico, Costa Rica.
- OCHRACELLA Hendel, 1936:98. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil.
- PARALEVIGATA Burla, 1956:261. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- PICTIVENTRIS Duda, 1925:211. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Mexico, Costa Rica, El Salvador, Brazil.
- PLEURALIS Williston, 1896:411. Type-locality: West Indies, St. Vincent. Distr. — West Indies.
- PROGNATHA Sturtevant, 1916:340. Type-locality: Puerto Rico, Adjuntas. Distr. — Puerto Rico, Haiti.
- RAMULOSA Burla, 1956:266. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- SPINICAUDA Malloch, 1926:30. Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica, Panama.

- SUBFLAVOHALTERATA Burla, 1956:264. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- SUBGILVA Burla, 1956:263. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- THORACIS Williston, 1896:411. Type-locality: West Indies, St. Vincent. Distr. — West Indies, ?Brazil.

#### Subgenus PHLORIDOSA Sturtevant

- Drosophila*, subg. PHLORIDOSA Sturtevant, 1942:28. Type-species, *floricola* Sturtevant (orig. des.).
- ALEI Brncic, 1962:4. Type-locality: "Chile". Distr. — Chile.
- ALFARI Sturtevant, 1921:75. Type-locality: Costa Rica, San José. Distr. — Costa Rica.
- DENIERI Blanchard, 1938:362. Type-locality: "Argentina". Distr. — Brazil, Argentina.
- FLORICOLA Sturtevant, 1942:42. Type-locality: U.S.A., California. Distr. U.S.A., Mexico, Colombia.
- LUTZII Sturtevant, 1916:340. Type-locality: Cuba, Havana. Distr. — U.S.A., Cuba, Puerto Rico, Jamaica, Mexico, Costa Rica.
- TRISTANI Sturtevant, 1921:75. Type-locality: Costa Rica, San José. Distr. — Costa Rica.

#### Subgenus SCAPTODROSOPHILA Duda

- SCAPTODROSOPHILA Duda, 1923:37 (as genus). Type-species, *scaptomyzoidea* Duda (mon.).
- Drosophila*, subg. *Pholadoris* Sturtevant, 1942:28. Type-species, *victoria* Sturtevant (orig. des.).
- LATIFASCLAEFORMIS Duda, 1940:22. Type-locality: Africa, Uganda. Distr. — U.S.A., West Indies, Mexico south to Brazil and Peru; Africa.
- mirim* Dobzhansky & Pavan, 1943:62. Type-locality: Brazil, São Paulo, Bertioga.
- baeomyia* Wheeler, 1949b:145. Type-locality: Mexico, Oaxaca.
- VICTORIA Sturtevant, 1942:33. Type-locality: U.S.A., California. Distr. — U.S.A., ?Mexico.

#### Subgenus SIPHLODORA Patterson & Mainland

- Drosophila*, subg. SIPHLODORA Patterson & Mainland, 1944:25. Type-species, *sigmoides* Loew (orig. des.).
- FLEXA Loew, 1865:182. Type-locality: "Cuba". Distr. — West Indies (Cuba, Haiti, Puerto Rico), Mexico south to Brazil.
- subsigmoides* Patterson & Mainland, 1944:26. Type-locality: Mexico, Distrito Federal, El Desierto de los Leones.

#### Subgenus SOPHOPHORA Sturtevant

- Drosophila*, subg. SOPHOPHORA Sturtevant, 1939:139. Type-species, *melanogaster* Meigen (orig. des.).

- ABREGOLINEATA Duda, 1925:214. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica. Ref. — Wheeler, 1963.
- ALAFUMOSA Patterson & Mainland in Patterson, 1943:187. Type-locality: Mexico, Michoacán, Valle de Huajumbaro. Distr. — Mexico.
- ALAGITANS Patterson & Mainland in Patterson, 1943:194. Type-locality: Mexico, Michoacán, Laguna Pátzcuaro. Distr. — Mexico.
- ANANASSAE Doleschall, 1858:128. Type-locality: Molucca Is., Amboina I. Distr. — U.S.A., West Indies, Mexico south to Chile, Bolivia, and Brazil; Circumtropical.
- caribea* Sturtevant, 1916:335. Type-locality: Cuba, Havana.
- AUSTROSALTANS Spassky, 1957:57. Type-locality: Brazil, São Paulo, Pirassununga. Distr. — Brazil.
- AZTECA Sturtevant & Dobzhansky, 1936:577. Type-locality: Mexico, Oaxaca. Distr. — U.S.A., Mexico, Guatemala, Costa Rica.
- BOCAINENSIS Pavan & Cunha, 1947:18. Type-locality: Brazil, São Paulo: Serra da Bocaina, Mogi das Cruzes, Iporanga, and Itanhaem, Paraná: Lambedor. Distr. — Brazil.
- BOCAINOIDES Carson, 1954:150. Type-locality: Brazil, São Paulo, Vila Atlântica. Distr. — Brazil.
- CAPNOPTERA Patterson & Mainland, 1944:47. Type-locality: Mexico, Veracruz, Perote. Distr. — Mexico, Costa Rica, Honduras, Nicaragua, El Salvador. Ref. — Wheeler & Magalhães, 1962.
- CAPRICORNI Dobzhansky & Pavan, 1943:14. Type-locality: Brazil, São Paulo, Vila Atlântica. Distr. — Panama, Colombia, Brazil.
- CHANGUINOLAE Wheeler & Magalhães, 1962:169. Type-locality: Panama, Changuinola. Distr. — Panama, Colombia.
- CORDATA Sturtevant, 1942:34. Type-locality: Guatemala, Quirigua. Distr. — Guatemala.
- DACUNHAI Mourão & Bicudo, 1967:126. Type-locality: Jamaica, Kingston. Distr. — Jamaica.
- DOBZHANSKII Patterson, 1943:82. Type-locality: Mexico, Mexico. Distr. — Mexico.
- ELLIPTICA Sturtevant, 1942:35. Type-locality: Mexico, Pachuca. Distr. — Mexico.
- EMARGINATA Sturtevant, 1942:36. Type-locality: Guatemala, Quirigua. Distr. — Mexico, Guatemala, Costa Rica, El Salvador, Panama, Colombia, Venezuela, Ecuador, Peru.
- EQUINOXIALIS Dobzhansky, 1946:209. Type-locality: Brazil, Amazonas, Tefé. Distr. — Panama, El Salvador, Brazil.
- FROLOVAE Wheeler, 1949a:175. Type-locality: Mexico, Michoacán, Morelia. Distr. — Mexico.
- FUMIPENNIS Duda, 1925:220. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Panama, Brazil.
- INSULARIS Dobzhansky, 1957:41. Type-locality: Lesser Antilles, St. Kitts, St. Lucia. Distr. — Lesser Antilles.
- KERTESZINA Duda, 1925:222. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- var. *BOLIVIENSIS* Duda, 1927:215. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.

- KIKKAWAI Burla, 1954b:47. Type-locality: Brazil, Rio de Janeiro. Distr. — Colombia, Brazil; Asiatic-Pacific area.
- LUSALTANS Magalhães, 1962:140. Type-locality: Haiti, Petionville. Distr. — Haiti.
- MAGALHAESI Mourão & Bicudo, 1967:127. Type-locality: Brazil, Rio Grande do Sul. Distr. — Brazil.
- MANGABEIRAI Malogolowkin, 1951:432. Type-locality: Brazil, Bahia, Salvador. Distr. — Puerto Rico, Costa Rica, Panama, El Salvador, Brazil. Ref. — Carson, Wheeler & Heed, 1957; Carson, 1962; Malogolowkin, 1958.
- MEGALAGITANS Wheeler & Magalhães, 1962:165. Type-locality: Colombia, Bucaramanga, Cerra de Par Rico. Distr. — Colombia.
- MELANOCASTER Meigen, 1830:85. Type-locality: "Europe". Distr. — Cosmopolitan.
- ampelophila* Loew, 1862:231 (Cent. 2, nº. 99). Type-locality: "Cuba".
- MILLERI Magalhães, 1962:144. Type-locality: Puerto Rico, El Yunque. Distr. — Puerto Rico.
- NEBULOSA Sturtevant, 1916:327 (nom. nov. for *limbata* Williston). Type-locality: West Indies, St. Vincent. Distr. — U.S.A., West Indies, Mexico south to Brazil and Peru.
- limbata* Williston, 1896:414 (preocc. Röser, 1840). Type-locality: West Indies, St. Vincent.
- NEOALAGITANS Wheeler & Magalhães, 1962:162. Type-locality: Haiti, Kenscoff. Distr. — Haiti, Jamaica.
- NEOCORDATA Magalhães, 1956:275. Type-locality: Brazil, Minas Gerais, Montes Claros. Distr. — Brazil.
- NEOELLIPTICA Pavan & Magalhães in Pavan, 1950:13. Type-locality: Brazil, Paraná, Jaguariava and Goiás, Anápolis. Distr. — Brazil.
- NEOSALTANS Pavan & Magalhães in Pavan, 1950:16. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Brazil.
- NIGROSALTANS Magalhães, 1962:141. Type-locality: Panama, Chiriqui, Boquete. Distr. — Costa Rica, Panama.
- PARABOCAINENSIS Carson, 1954:149. Type-locality: Brazil, Rio Grande do Sul, Feliz. Distr. — Brazil.
- PARABOCAINOIDES Wheeler & Magalhães, 1962:167. Type-locality: Panama, Chiriqui, Boquete. Distr. — Panama.
- PARASALTANS Magalhães, 1956:276. Type-locality: Brazil, Amazonas, Alto Rio Negro. Distr. — Colombia, Brazil.
- PAULISTORUM Dobzhansky & Pavan, 1949:301. Type-locality: Brazil, São Paulo, Mogi das Cruzes. Distr. — Costa Rica, El Salvador, Panama, Trinidad, Colombia, Brazil.
- PAVLOVSKIANA Kastritsis & Dobzhansky, 1967:245. Type-locality: Guyana, Apoteri. Distr. — Guyana.
- PROSALTANS Duda, 1927:164. Type-locality: Paraguay, Hohenau. Distr. — Mexico, Guatemala, Costa Rica, Panama, Colombia, Trinidad, Brazil, Paraguay.
- PSEUDOBOCAINENSIS Wheeler & Magalhães, 1962:167. Type-locality: Panama, Chiriqui, Boquete. Distr. — Panama.





- PSEUDOOBSCURA Frolova, 1929:212. Type-locality: "North America". Distr. — U.S.A., Mexico, Guatemala, Colombia.
- PSEUDOSALTANS Magalhães, 1956:273. Type-locality: Brazil, São Paulo, São Paulo, Cantareira. Distr. — Brazil.
- PULCHELLA Sturtevant, 1916:327 (nom. nov. for *bellula* Williston). Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent).
- bellula* Williston, 1896:410 (preocc. Bergroth, 1894). Type-locality: West Indies, St. Vincent.
- RECTANGULARIS Sturtevant, 1942:38. Type-locality: Mexico, Orizaba. Distr. — Mexico.
- SALTANS Sturtevant, 1916:328. Type-locality: Cuba, Guantánamo. Distr. — Cuba, Mexico, Guatemala, Costa Rica, El Salvador.
- sellata* Sturtevant, 1942:39. Type-locality: Guatemala, Antigua.
- SEPTENTRIONALIS Magalhães & Buck in Magalhães, 1962:142. Type-locality: Colombia, Sevilla. Distr. — Colombia.
- SIMULANS Sturtevant, 1919:153. Type-locality: U.S.A., New York. Distr. — U.S.A., Mexico south to Chile and Brazil.
- STURTEVANTI Duda, 1927:167. Type-locality: Bolivia, Mapiri. Distr. — West Indies, Mexico south to Brazil.
- earlei* Sturtevant, 1916:329. Type-locality: Cuba, Herradura. Ref. — Magalhães, 1962.
- pilifacies* Malloch, 1926:29. Type-locality: Costa Rica, San Mateo, Higuito.
- biopaca* Sturtevant, 1942:37. Type-locality: Guatemala, Quirigua.
- SUBINFUMATA Duda, 1925:221. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- SUBSALTANS Magalhães, 1956:277. Type-locality: Brazil, Pará, Belém. Distr. — Brazil.
- SUCINEA Patterson & Mainland, 1944:31. Type-locality: Mexico, Puebla, Petalcingo. Distr. — Mexico, El Salvador, Panama, Colombia.
- TOLTECA Patterson & Mainland, 1944:32. Type-locality: Mexico, Veracruz, Córdoba. Distr. — Mexico, Nicaragua, El Salvador, Colombia, Venezuela, Bolivia. [Probably = "*pectinipes*" Duda, 1927:177 (*nomen nudum*) from Paraguay].
- TROPICALIS Burla & Cunha in Burla et. al., 1949:302. Type-locality: Brazil, Goiás, Palma. Distr. — El Salvador, Panama, Brazil, Bolivia.
- ssp. CUBANA Townsend, 1954:339. Type-locality: Cuba, Soledad Central. Distr. — West Indies (Cuba, Puerto Rico, Haiti, Dominica, Jamaica).
- WILLISTONI Sturtevant, 1916:327 (nom. nov. for *pallida* Williston). Type-locality: West Indies, St. Vincent. Distr. — U.S.A., West Indies, Mexico south to Bolivia and Brazil.
- pallida* Williston, 1896:415 (preocc. Zetterstedt, 1847). Type-locality: West Indies, St. Vincent.
- paulista* Dobzhansky & Pavan, 1943:10. Type-locality: Brazil, São Paulo, Campinas.

### Subgenus SORDOPHILA Wheeler

*Drosophila*, subg. SORDOPHILA Wheeler, 1949a:171. Type species, *acanthoptera* Wheeler (orig. des.).

ACANTHOPTERA Wheeler, 1949a:171. Type-locality: Mexico, Oaxaca. Distr. — Mexico.

#### Unplaced species of *Drosophila*

ALANI Pipkin, 1954:220. Type-locality: Panama, Bocas del Toro, Almirante. Distr. — Panama.

ALEXANDREI Cordeiro, 1951:1. Type-locality: Brazil, Rio Grande do Sul: Emboaba, Itapuã, and Feliz. Distr. — Brazil.

ATRA Walker, 1852:412. Type-locality: "Brazil". Distr. — Brazil.

CANESCENS Duda, 1927:210. Type-locality: Peru, Urubamba R. Distr. — Peru.

COFFEATA Williston, 1896:409. Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent).

CUZCOICA Duda, 1927:120. Type-locality: Peru, Cuzco. Distr. — Peru.

DECEMSERIATA Hendel, 1936:98. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil.

DILACERATA Becker, 1919:208. Type-locality: Ecuador, El Pelado. Distr. — Ecuador.

DORSIVITTA Walker, 1861:63. Type-locality: "South America." Distr. — South America.

FERRUGINEA Becker, 1919:209. Type-locality: Ecuador, Alausi. Distr. — Ecuador.

FLORAE Sturtevant, 1916:339. Type-locality: Cuba, Havana. Distr. — Cuba, Puerto Rico, Costa Rica, Honduras.

FUSCA Coquillett, 1900:264. Type-locality: Puerto Rico, Utuado. Distr. — Puerto Rico.

GIGANTEA Thomson, 1869:596. Type-locality: Argentina, Buenos Aires. Distr. — Argentina.

GRISEICOLLIS Becker, 1919:209. Type-locality: Ecuador, El Pelado, Mirador. Distr. — Ecuador.

ILLOTA Williston, 1896:415. Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent).

IMPUDICA Duda, 1927:196. Type-species: Peru, Urubamba R., Pichis. Distr. — Peru.

LATEBUCCATA Duda, 1927:203. Type-locality: Peru, Urubamba R. Distr. — Peru.

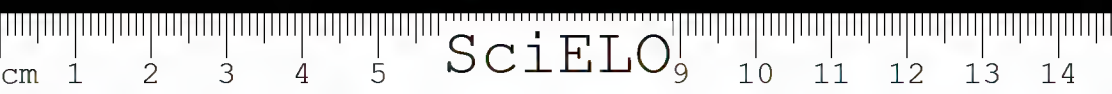
LATECARINATA Duda, 1927:170. Type-locality: Bolivia, Coroico. Distr. — Bolivia.

LEONI Pipkin, 1964:225. Type-locality: Panama, Canal Zone, Fort Sherman Reservation. Distr. — Panama (Canal Zone).

MACULIFRONS Duda, 1927:122. Type-locality: Peru, Urubamba R. Distr. — Peru.

MELANOPTERA Duda, 1927:158. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.

- MELLEA Becker, 1919:208. Type-locality: Ecuador, La Rinconada. Distr. — Ecuador.
- MEXICANA Macquart, 1843:416 (1843:259), pl. 35. Type-locality: "Mexico". Distr. — Mexico.
- NIGRIFEMUR Duda, 1927:192. Type-locality: Bolivia, Mapiri. Distr. — Bolivia.
- OBSCURICOLOR Duda, 1927:191. Type-locality: Peru, Urubamba R. and Bolivia, Mapiri. Distr. — Peru, Bolivia.
- ONYCHOPHORA Duda, 1927:208. Type-locality: Bolivia, Yungas and Peru, Callanga. Distr. — Peru, Bolivia.
- ORNATIFRONS Duda, 1927:162. Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. — Brazil.
- PAGLIOLI Cordeiro, 1963:401. Type-locality: "Brazil". Distr. — Brazil.
- PERUENSIS Wheeler, 1959a:183 (nom. nov. for *maculipennis* Duda). Type-locality: Peru, Urubamba R. Distr. — Peru.
- maculipennis* Duda, 1927:167 (preocc. Gimmerthal, 1847). Type-locality: Peru, Urubamba R.
- PICTIFRONS Duda, 1927:182. Type-locality: Bolivia, Yungas. Distr. — Bolivia.
- FULCHRA Schiner, 1868:239. Type-locality: "South America". Distr. — South America.
- PULVERA Duda, 1927:181. Type-locality: Bolivia, Yungas and Peru, Paso de Lares, Urubamba R. Distr. — Bolivia, Peru.
- RETICULATA Wheeler, 1957:101. Type-locality: Colombia, Medellín. Distr. — Colombia, Venezuela.
- SCIOPTERA Duda, 1927:179. Type-locality: Bolivia, Yungas. Distr. — Bolivia.
- SEMIALBA Duda, 1925:208. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- SOROR Schiner, 1868:240. Type-locality: "Colombia". Distr. — Colombia.
- SORORIA Williston, 1896:408. Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent).
- SPHAEROCERA Thomson, 1869:596. Type-locality: "Patagonia." Distr. — ?Argentina.
- STRIGIVENTRIS Duda, 1927:184. Type-locality: Bolivia, Sorata. Distr. — Bolivia.
- SUTURALIS Wheeler, 1957:100. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica.
- TARSALIS Walker, 1852:412. Type-locality: "Brazil". Distr. — Brazil.
- TARSATA Schiner, 1868:240. Type-locality: "South America". Distr. — South America.
- TIBIALIS Wheeler, 1957:100. Type-locality: Costa Rica, Turrialba. Distr. — Costa Rica, Panama.
- TORREI Sturtevant, 1921:86. Type-locality: Cuba, Havana. Distr. — Cuba.
- UMBRIPENNIS Hendel, 1936:99. Type-locality: Brazil, Pará, Santarém, Faz. Taperinha. Distr. — Brazil.
- VERTICIS Williston, 1896:413. Type-locality: West Indies, St. Vincent. Distr. — West Indies (St. Vincent).



XIPHIPHORA Pipkin, 1964:240. Type-locality: Panama, Cerro Campana.  
Distr. — Panama.

#### Genus MICRODROSOPHILA Malloch

MICRODROSOPHILA Malloch, 1921:312. Type-species, *Drosophila quadrata* Sturtevant (orig. des.). [Several undescribed neotropical species are known].

#### Genus MYCODROSOPHILA Oldenberg

MYCODROSOPHILA Oldenberg, 1914:4. Type-species, *Amiota poecilogastra* Loew (mon.).

BRUNNESCENS Wheeler & Takada, 1963:398. Type-locality: Brazil, Pará, Belém. Distr. — Brazil.

DIMIDIATA (Loew), 1862:230 (Cent. 2, n°. 95) (*Drosophila*). Type-locality: U.S.A., Illinois. Distr. — U.S.A., Mexico.

ELEGANS Wheeler & Takada, 1963:398. Type-locality: Panama, Canal Zone, Madden Forest, Las Cruces Trail. Distr. — Costa Rica, Panama (Canal Zone), Colombia.

NEOPROJECTANS Wheeler & Takada, 1963:395. Type-locality: Panama, Canal Zone, Madden Forest, Las Cruces Trail. Distr. — Costa Rica, Honduras, Nicaragua, Panama (Canal Zone), Trinidad, Ecuador.

NIGROPLEURA Wheeler & Takada, 1963:398. Type-locality: Puerto Rico, Río Piedras. Distr. — Puerto Rico, Jamaica, El Salvador.

PROJECTANS (Sturtevant), 1916:342 (*Drosophila*). Type-locality: Dominica, St. Domingo, San Francisco Mts. Distr. — West Indies, Mexico south to Brazil and Bolivia.

PSEUDOPROJECTANS Wheeler & Takada, 1963:395. Type-locality: Nicaragua, El Recreo. Distr. — Nicaragua, Panama.

#### Genus NEORHINOLEUCOPHENGHA Duda

NEORHINOLEUCOPHENGHA Duda, 1925:164. [Duda, 1924:179, without species]. Type-species, *vitripennis* Duda (present designation).

KERTESZI Duda, 1925:166. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.

QUINQUELINEATA Duda, 1925:167. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.

TRACHYOPA Duda, 1925:165. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.

VITRIPENNIS Duda, 1925:164. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.

#### Genus NEOTANYGASTRELLA Duda

NEOTANYGASTRELLA Duda, 1925:206. Type-species, *tricoloripes* Duda (mon.).

ANTILLEA Wheeler, 1957:104. Type-locality: West Indies, Jamaica. Distr. — West Indies (Jamaica).





- BOLIVIENSIS** Duda, 1927:73. (as *tricoloripes* var.). Type-locality: Bolivia, Mapiri. Distr. — Bolivia.
- CHYMOMYZOIDES** Duda, 1927:71. Type-locality: Bolivia, Mapiri and Peru, Urubamba R. Distr. — West Indies (St. Lucia), Costa Rica, Honduras, Nicaragua, El Salvador, Panama, Colombia, Venezuela, Trinidad, Ecuador, Brazil, Peru, Bolivia.
- LEUCOPODA** (Wheeler), 1949a:161 (*Chymomyza*). Type-locality: Mexico, Michoacán, Morelia. Distr. — Mexico.
- NIGRICOSTA** (Malloch), 1926:30 (*Drosophila*). Type-locality: Costa Rica, San Mateo, Higuito. Distr. — Costa Rica, Nicaragua.
- ORNATA** Wheeler, 1957:104. Type-locality: Venezuela, Merida. Distr. — Venezuela.
- TRICOLORIPES** Duda, 1925:224. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica, Honduras, El Salvador, Panama, Colombia, Brazil, Peru, Bolivia, West Indies (Haiti, Puerto Rico).
- brasiliensis* Frota-Pessoa, 1946:175 (*Bunostoma*). Type-locality: Brazil, Rio de Janeiro.

#### Genus PARALIODROSOPHILA Duda

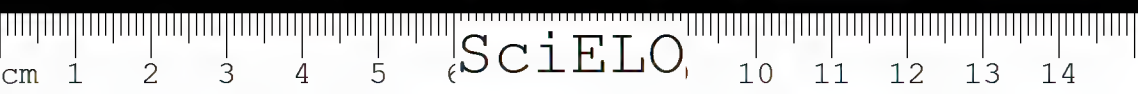
- PARALIODROSOPHILA** Duda, 1925:155. Type-species, *bipartita* Duda (mon.).
- ANTENNATA** Wheeler, 1957:109. Type-locality: West Indies, Jamaica. Distr. — West Indies (Jamaica).
- BIPARTITA** Duda, 1925:184. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Mexico, Costa Rica, El Salvador, Nicaragua, Panama, Ecuador.
- DUDAI** Wheeler, 1954:56. Type-locality: Mexico, Veracruz, Huatusco. Distr. — Mexico, El Salvador, Panama.
- MIHALYI** Wheeler, 1963:60. Type-locality: Costa Rica, Heredia. Distr. — Costa Rica, Panama.

#### Genus PARAMYCODROSOPHILA Duda

- PARAMYCODROSOPHILA** Duda, 1924:191. Type-species, *Drosophila pictula* Meijere (mon.).
- ANOMALA** Wheeler, 1954:60. Type-locality: U.S.A., Texas. Distr. — U.S.A., ?El Salvador.
- CENTRALIS** Wheeler, 1954:58. Type-locality: U.S.A., Texas. Distr. — U.S.A., Puerto Rico, Honduras, El Salvador.
- COSTARICANA** Duda, 1925:225. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Haiti, Costa Rica, El Salvador, Panama.
- NEPIHELEA** Wheeler, 1968:433. Type-locality: West Indies, Jamaica. Distr. Jamaica.

#### Genus SCAPTOMYZA Hardy

- SCAPTOMYZA** Hardy, 1849:361. Type-species, *Drosophila graminum* Fallén (Coquillett, 1910:603).



Subgenus DENTISCAPTOMYZA Takada

*Scaptomyza*, subg. DENTISCAPTOMYZA Takada, 1965:43. Type-species, *denticauda* Malloch (mon.).

DENTICAUDA Malloch, 1934:449. Type-locality: Chile, Llanquihue, Puella. Distr. — Chile, Juan Fernandez Is., Argentina.

INTERMEDIA (Duda), 1927:151 (*Drosophila*; as *adusta* var.). Type-locality: Chile, Quillota. Distr. — Chile, Argentina.

*dissimilis* Malloch, 1934:452. Type-locality: Chile, Angol.

MELANCHOLICA (Duda), 1927:153 (*Drosophila*). Type-locality: Chile, Santiago, Quillota; Bolivia, Sorata, and Yungas. Distr. — Chile, Bolivia, Argentina, Juan Fernandez Is.

MULTISPINOSA Malloch, 1934:450. Type-locality: Argentina, Rio Negro, Bariloche. Distr. — Argentina, Chile.

Subgenus HEMISCAPTOMYZA Hackman

*Scaptomyza*, subg. HEMISCAPTOMYZA Hackman, 1959:19. Type-species, *Geomyza unipunctum* Zetterstedt (orig. des.).

APICATA (Thomson), 1869:597 (*Drosophila*). Type-locality: U.S.A., California. Distr. — U.S.A., Mexico (Baja California).

APICIPUNCTA Malloch, 1934:451. Type-locality: Argentina, Rio Negro, Lago Correntoso. Distr. — Argentina.

HENNIGI Hackman, 1959:60. Type-locality: Costa Rica, San José. Distr. — Mexico, Guatemala, Costa Rica.

HIRSUTA Wheeler, 1949a:166. Type-locality: Mexico, Puebla, Peña de Gato. Distr. — U.S.A., Mexico.

MACULIFERA Becker, 1919:210. Type-locality: Ecuador, La Rinconada, Alausi. Distr. — U.S.A., Mexico, Colombia, Ecuador, Peru, Bolivia.

*parapicata* Hackman, 1959:54. Type-locality: Ecuador, Pomasqui.

Subgenus MESOSCAPTOMYZA Hackman

*Scaptomyza*, subg. MESOSCAPTOMYZA Hackman, 1959:17. Type-species, *wheeleri* Hackman (orig. des.).

BOGOTAE Wheeler & Takada, 1967:64. Type-locality: Colombia, Bogotá. Distr. — Colombia.

COQUILLETI Wheeler & Takada, 1967:64. Type-locality: Haiti, Kenscoff. Distr. — Haiti, Puerto Rico, Dominica, Mexico.

DANKOI Wheeler & Takada, 1967:66. Type-locality: Peru, Cuzco. Distr. — Peru.

FUSCINERVIS Malloch, 1924b:11. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil, Bolivia.

NIGRICOSTA Wheeler & Takada, 1967:68. Type-locality: Colombia, Bogotá. Distr. — Colombia.

NIGRIPALPIS Malloch, 1924b:10. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Colombia, Ecuador, Peru, Brazil.

PARAVITTATA Wheeler, 1952:200. Type-locality: U.S.A., California. Distr. — U.S.A., Haiti, Jamaica, El Salvador.

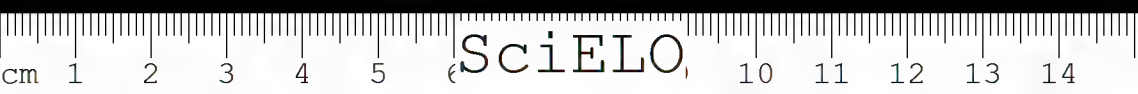
- PERSONATA Wheeler & Takada, 1967:68. Type-locality: Honduras, Zamorano, Monte Vyuca. Distr. — Honduras, El Salvador.
- PLEUROLINEATA Wheeler & Takada, 1967:70. Type-locality: Colombia, Popayán. Distr. — Colombia, Brazil.
- PSEUDOVITTATA Brncic, 1955:246. Type-locality: Chile, Azapa. Distr. — Chile, Ecuador.
- SALVADORAE Wheeler & Takada, 1967:70. Type locality: El Salvador, Cerro Monte Cristo. Distr. — El Salvador, Panama.
- SAMURAI Wheeler & Takada, 1967:71. Type-locality: Colombia, Bogotá. Distr. — Colombia.
- SETOSA Wheeler & Takada, 1967:72. Type locality: Ecuador, Chimborazo, Chilicay. Distr. — Ecuador.
- STRIATICEPS Wheeler & Takada, 1967:72. Type-locality: Colombia, Bogotá, Tequendama Falls. Distr. — Colombia.
- SUBVITTATA Hackman, 1959:50. Type locality: Costa Rica, San José. Distr. — Costa Rica.
- VITTATA (Coquillett), 1895:318 (*Drosophila*). Type-locality: U.S.A., Florida. Distr. — U.S.A., Cuba, Mexico, El Salvador, Costa Rica, Bolivia, Peru.
- WHEELERI Hackman, 1959:49. Type-locality: U.S.A., Virginia. Distr. — U.S.A., Mexico south to Colombia, Ecuador, ?Peru, ?Bolivia.

#### Subgenus PARASCAPTOMYZA Duda

- Drosophila*, subg. PARASCAPTOMYZA Duda, 1924:203. Type-species, *Drosophila graminum* Fallén (mon.; misident.) = *pallida* (Zetterstedt).
- ADUSTA (Loew), 1862:231 (Cent. 2, nº. 98) (*Drosophila*). Type-locality: U.S.A., District of Columbia. Distr. — U.S.A., Mexico, Costa Rica, El Salvador, Colombia, Argentina, Bolivia, Chile.
- CLAVIFERA Wheeler & Takada, 1967:74. Type-locality: Peru, Cuzco. Distr. — Peru.
- MACROPTERA Wheeler & Takada, 1967:75. Type-locality: Costa Rica, Cerro de la Muerte. Distr. — Costa Rica.
- PALLIDA (Zetterstedt), 1847:2571 (*Drosophila*). Type-locality: "Europe". Distr. — Cosmopolitan.
- graminum*, authors, not Fallén.
- PICIFEMORATA Hackman, 1959:45. Type-locality: Ecuador, Otavalo. Distr. — Costa Rica, Colombia, Venezuela, Ecuador, Peru.
- SPINIPALPIS Séguy, 1934:11. Type locality: Argentina, La Plata. Distr. — Colombia, Argentina, Bolivia.

#### Subgenus SCAPTOMYZA Hardy

- ANDINA Wheeler & Takada, 1967:43. Type-locality: Colombia, Bogotá. Distr. — Colombia, Ecuador.
- ATAHUALPA Hackman, 1959:59. Type-locality: Peru, Lima. Distr. — Peru.
- HEEDI Wheeler & Takada, 1967:46. Type locality: El Salvador, Cerro Monte Cristo. Distr. — El Salvador.



- NEOANDINA Wheeler & Takada, 1967:48. Type-locality: Colombia, Bogotá.  
Distr. — Colombia.
- NOEI Brncic, 1955:245. Type-locality: Chile, Arica, Yuta. Distr. — Chile.
- PARANDINA Wheeler & Takada, 1967:50. Type-locality: Colombia, Bogotá.  
Distr. — Colombia.
- SUBANDINA Wheeler & Takada, 1967:50. Type-locality: Colombia, Bogotá.  
Distr. — Colombia.

#### Genus ZYGODROSOPHILA Hendel

- ZYGODROSOPHILA Hendel, 1917:42. Type-species, *albitarsis* Hendel (orig.  
des.). Ref. — Duda, 1927:69 (*?*=*Chymomyza*).
- ALBITARSIS Hendel, 1917:43. Type-locality: "Paraguay". Distr. —  
Paraguay.

#### Genus ZYGOTHRICA Wiedemann

- ZYGOTHRICA Wiedemann, 1830a:3. Type-species, *Achias dispar* Wiedemann  
(mon.).
- Drosophilura* Hendel, 1913b:387. Type-species, *caudata* Hendel (orig.  
des.).

#### Subgenus TANYGLOSSA Duda

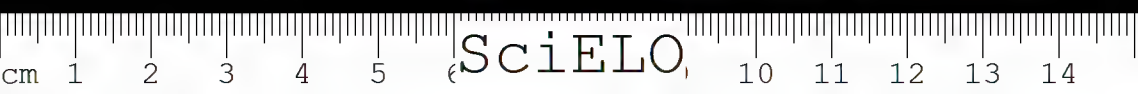
- Zygothrica*, subg. TANYGLOSSA Duda, 1925:189. Type-species, *tenuirostris*  
Duda (mon.).
- TENUIROSTRIS Duda, 1925:189. Type-locality: Costa Rica, Suiza de Tur-  
rialba. Distr. — Costa Rica.

#### Subgenus ZYGOTHRICA Wiedemann

- ALDRICHI Sturtevant, 1920:157. Type-locality: Panama, Trinidad River.  
Distr. — Costa Rica, Nicaragua, El Salvador, Panama, Canal Zone,  
Brazil (Pará).
- var. FLAVOCILIATA Hendel, 1936:95. Type-locality: Brazil, Pará, San-  
tarém, Faz. Taperinha. Distr. — Brazil, Peru.
- APOPOEYI Burla, 1956:240. Type-locality: Brazil, São Paulo. Distr. —  
Brazil.
- ATRIANGULA Duda, 1927:57. Type-locality: Peru, Pichís. Distr. — Brazil,  
Peru.
- BILINEATA (Williston), 1896:409 (*Drosophila*). Type-locality: West Indies,  
St. Vincent. Distr. — West Indies (Haiti, Puerto Rico, Jamaica,  
Martinique, Guadeloupe, St. Vincent), Costa Rica, Colombia.
- CANDENS Burla, 1956:244. Type-locality: Brazil, Rio de Janeiro, Itatiaia.  
Distr. — Brazil.
- CAUDATA (Hendel), 1913b:389 (*Drosophilura*). Type-locality: "Bolivia".  
Distr. — Bolivia, Brazil.
- CLAVIPOEYI Burla, 1956:238. Type-locality: Brazil, Rio de Janeiro, Itatiaia.  
Distr. — Brazil.
- CLYPEATA Burla, 1956:251. Type-locality: Brazil, Rio de Janeiro, Itatiaia.  
Distr. — Brazil.



- DIMIDIATA Duda, 1927:53. Type-locality: Peru, Pichís. Distr. — Peru.
- DISPAR (Wiedemann), 1830b:556 (*Achias*). Type-locality: "Brazil". Distr. — Brazil. Ref. — Malogolowkin, 1952; Burla, 1954a.
- EXUBERANS Wheeler, 1968:438. Type locality: Ecuador, Pichilingue. Distr. — Ecuador.
- FASCIPENNIS Duda, 1927:54. Type-locality: Peru, Pichís. Distr. — Peru.
- FESTIVA Burla, 1956:256. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- FUSCINA Burla, 1956:257. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- GEMMA Burla, 1956:249. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- GRACILIPOEYI Burla, 1956:240. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- HYPANDRIATA Burla, 1956:246. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- LAEVIFRONS Duda, 1927:56. Type locality: Peru, Pichís, Pachitea R. Distr. — Peru, Brazil.
- LAEVIVENTRIS Duda, 1927:62. Type-locality: Brazil, [Rio de Janeiro, Sãquarema?] Pôrto Novo. Distr. — ?Brazil.
- LANCEOLATA Burla, 1956:246. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- LATICEPS Burla, 1954a:247. Type-locality: Brazil, São Paulo, São Paulo, Cantareira. Distr. — Costa Rica, El Salvador, Brazil.
- MESOPOEYI Burla, 1956:241. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- MICROSTOMA Duda, 1925:190. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — West Indies (Puerto Rico, Jamaica), Costa Rica, El Salvador, Nicaragua, Panama, Colombia.
- NEOALDRICHI Burla, 1956:222. Type-locality: Brazil, Rio de Janeiro. Distr. — Costa Rica, Nicaragua, El Salvador, Panama (Canal Zone), Trinidad, Brazil.
- NITIDIFRONS Duda, 1927:55. Type-locality: "Peru". Distr. — Peru.
- ORBITALIS (Sturtevant), 1916:336 (*Drosophila*). Type-locality: Panama, Taboga I. Distr. — Costa Rica, El Salvador, Panama, Canal Zone.
- PALLIDIPOEYI Burla, 1956:237. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- PALPIPOEYI Burla, 1956:243. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- PARALDRICHI Burla, 1956:223. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- PARAPOEYI Burla, 1956:242. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- PARAPTILIALIS Burla, 1956:246. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- PARILIS Burla, 1956:220. Type-locality: Brazil, São Paulo. Distr. — Brazil.



- PARVIPOEYI Burla, 1956:239. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- FILIPES Hendel, 1936:93. Type-locality: Brazil, Pará, Santarém, Faz. Ta-perinha. Distr. — Brazil.
- PLEUROSTRIGATA Burla, 1956:250. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- POEYI (Sturtevant), 1921:76 (*Drosophila*). Type-locality: Cuba, Havana. Distr. — Cuba, Mexico, Costa Rica.
- PRODIPAR Duda, 1927:63. Type-locality: Peru, Pinipini. Distr. — Mexico south to Brazil and Peru.
- PTILIALIS Burla, 1956:245. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- SCUTELLARIS Wheeler, 1952:214. Type-locality: Mexico, Michoacán, Laguna Pátzcuaro. Distr. — Mexico.
- SECTIPOEYI Burla, 1956:236. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- SEMISTRIATA Wheeler, 1952:215. Type-locality: Mexico, Puebla, Peña de Gato. Distr. — Mexico.
- SPICULIROSTRIS Burla, 1956:255. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- STRIGOCULA Burla, 1956:250. Type-locality: Brazil, Bahia. Distr. — Brazil.
- SUBCANDENS Burla, 1956:245. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- VENUSTIPOEYI Burla, 1956:238. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- VIRGATALEA Burla, 1956:252. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- VIRGATINIGRA Burla, 1956:252. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- VITTATIFRONS (Williston), 1896:408 (*Drosophila*). Type-locality: West Indies, St. Vincent. Distr. — West Indies (Puerto Rico, Haiti, Jamaica, Guadeloupe, St. Kitts, St. Lucia, St. Vincent), Costa Rica south to Colombia, Peru.
- var. AVITTATA Duda, 1925:91. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.
- VITICLARA Burla, 1956:226. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- VITTIMACULOSA Burla, 1956:227. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- VITTIMARGINATA Burla, 1956:229. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- VITTIMARMORATA Burla, 1956:232. Type-locality: Brazil, São Paulo. Distr. — Brazil.
- VITTINOTIALIS Burla, 1956:230. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- VITTINUBILA Burla, 1956:225. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.
- VITTIPOECILA Burla, 1956:231. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.



- VITTI-PUNCTATA Burla, 1956:230. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- VITTI-SECTA Burla, 1956:232. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- VITTI-VIRGATA Burla, 1956:228. Type-locality: Brazil, Rio de Janeiro, Itatiaia. Distr. — Brazil.
- ZYGOPOREYI Burla, 1956:236. Type-locality: Brazil, Rio de Janeiro. Distr. — Brazil.

#### Unplaced Drosophilidae

#### Genus APACROCHAETA Duda

- APACROCHAETA Duda, 1927:106. Type-species, *columbiensis* Duda (mon.).
- COLUMBIENSIS Duda, 1927:106. Type-locality: Colombia, Sierra S. Lorenzo. Distr. — Colombia.

#### Genus LACCODROSOPHILA Duda

- LACCODROSOPHILA Duda, 1927:33. Type-species, *flavipes* Duda (Wheeler, 1957:111). Ref. — Wheeler, 1968 (key).
- ATRA Duda, 1927:40. Type-locality: Bolivia, Cordillera. Distr. — Colombia, Bolivia.
- FLAVESCENS Wheeler, 1957:112. Type-locality: Mexico, Pedregal. Distr. — Mexico.
- FLAVIPES Duda, 1927:38. Type-locality: Bolivia, Yungas. Distr. — Ecuador, Bolivia.
- HEEDI Wheeler, 1957:113. Type-locality: Colombia, Medellín. Distr. — Colombia.
- TAKADAI Wheeler, 1968:435. Type-locality: Ecuador, Chiriboga. Distr. — Ecuador.

#### Genus PSEUDOCACOXENUS Duda

- PSEUDOCACOXENUS Duda, 1925:157. Type-species, *lineatifrons* Duda (mon.).
- LINEATIFRONS Duda, 1925:157. Type-locality: Costa Rica, Suiza de Turrialba. Distr. — Costa Rica.

#### Genus ZAPRIOTHRICA Wheeler

- ZAPRIOTHRICA Wheeler, 1956:113. Type-species, *Sigaloessa dispar* Schiner (orig. des.).
- DISPAR (Schiner), 1868:239 (*Sigaloessa*). Type-locality: "Venezuela". Distr. — Colombia, Ecuador, Venezuela.
- HIRTA Wheeler, 1959:85. Type-locality: Ecuador, San Juan. Distr. — Ecuador.
- NUDISETA Wheeler, 1959:86. Type-locality: Mexico, Jalisco, Nev. Colima. Distr. — Mexico.
- SALEBROSA Wheeler, 1968:437. Type-locality: Colombia, Bogotá, Usme-El Hato road. Distr. — Colombia.

STERNALIS Wheeler, 1959:85. Type-locality: Ecuador, Mochachi. Distr. — Ecuador.

#### LITERATURE CITED

BECKER, T.

1919. Diptères brachycères, in *Mission de l'Arc Méridien en Amérique du Sud* 10:208-211, pl. XVII.

BLANCHARD, E. E.

1938. Descripciones y anotaciones de dípteros argentinos. *Ann. Soc. Cient. Argentina* 126:345-386.

BREUER, M.E. & C. PAVAN

1950. Genitalia masculina de "*Drosophila*" (Diptera): grupo "*annulimana*". *Rev. Brasil. Biol.* 10:469-488, illus.
1954. Genitalia masculina de "*Drosophila*" do grupo "*dreyfusi*" (Diptera). *Rev. Brasil. Biol.* 14:465-475, illus.

BRNCIC, D.

1955. The Chilean species of *Scaptomyza* Hardy (Diptera, Drosophilidae). *Rev. Chilena Ent.* 4:237-250, illus.
- 1957a. Las especies chilenas de Drosophilidae. *Monografías Biológicas de la Universidad de Chile* 8:136 pp., illus.
- 1957b. Los insectos de las Islas Juan Fernandez. 31. Drosophilidae (Diptera). *Rev. Chilena Ent.* 5:391-397, illus.
1962. New Chilean species of the genus *Drosophila*. *Biologica* 33:3-6.

BRNCIC, D. & S. KOREF SANTIBAÑEZ

1957. The *mesophragmatica* group of the genus *Drosophila* with description of three new species. *Biologica* 22(1956):63-72.

BURLA, H.

- 1954a. Study on the polymorphism in *Zygothrica dispar* and *Z. prodispar* and description of *Z. laticeps* sp. n. (Drosophilidae, Diptera). *Arq. Mus. Paranaense, Curitiba* 10(5):231-252.
- 1954b. Distinction between four species of the "*melanogaster*" group, "*Drosophila seguyi*", "*D. montium*", "*D. kikkawai*" sp. n. and "*D. auraria*" (Drosophilidae, Diptera). *Rev. Brasil. Biol.* 14:41-54, illus.
1956. Die Drosophilidengattung *Zygothrica* und ihre Beziehung zur *Drosophila*-Untergattung *Hirtodrosophila*. *Mitt. Zool. Mus. Berlin* 32:189-321, illus.

BURLA, H., A. B. DA CUNHA, A. R. CORDEIRO, T. DOBZHANSKY, C. MALOGOLOWKIN & C. PAVAN

1949. The *willistoni* group of sibling species of *Drosophila*. *Evolution* 3:300-314.

BURLA, H. & C. PAVAN

1953. The "*calloptera*" group of species (Drosophilidae, Diptera). *Rev. Brasil. Biol.* 13:291-314, illus.

CARPENTER, J. B.

1954. Moldy rot of the *Hevea* rubber tree in Costa Rica. *Plant Disease Reporter* 38(5):334-337.





CARSON, H. L.

1954. Interfertile sibling species in the *willistoni* group of *Drosophila*. *Evolution* 8:148-165.
1962. Fixed heterozygosity in a parthenogenetic species of *Drosophila*. *Univ. Texas Publ.* 6205:55-62.
1967. The association between *Drosophila carcinophila* Wheeler and its host, the land crab *Gecarcinus ruricola* (L.). *Amer. Midland Nat.* 78:324-343.

CARSON, H. L. & M. R. WHEELER

1968. *Drosophila endobanchia*, a new drosophilid associated with land crabs in the West Indies. *Ann. Ent. Soc. Amer.* 61:675-678, illus.

CARSON, H. L., M. R. WHEELER & W. B. HEED

1957. A parthenogenetic strain of *Drosophila mangabeirai* Malogolowkin. *Univ. Texas Publ.* 5721:115-122.

COQUILLET, D. W.

1895. Descriptions of new genera and species, pp. 307-319, in C. W. Johnson, *Diptera of Florida*. *Proc. Acad. Nat. Sci. Philad.* 1895:303-340.
1900. Report on a collection of dipterous insects from Puerto Rico. *Proc. U. S. Nat. Mus.* 22:249-270.
- 1901a. New Diptera in the U.S. National Museum. *Proc. U. S. Nat. Mus.* 23:593-618.
- 1901b. Three new species of Diptera. *Ent. News* 12:16-18.
1908. New genera and species of Diptera. *Proc. Ent. Soc. Wash.* (1907)9:144-148.
1910. The type-species of the North American genera of Diptera. *Proc. U. S. Nat. Mus.* 37:499-647.

CORDEIRO, A. R.

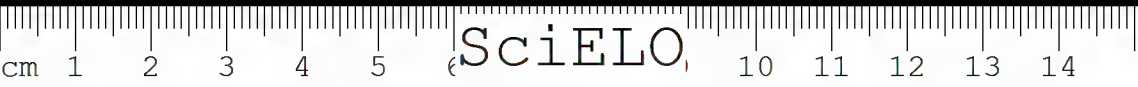
1951. *Drosophila alexandrei*, uma nova especie brasileira. *Publ. Fac. Filos. Univ. Rio Grande do Sul* 3:1-11.
1952. *Drosophila (Hirtodrosophila) caziensis*, a new species of fungus-feeding fly from Brasil. *Dusenica* 3:303-308, illus.
1963. "*Drosophila paglioli*", a new species showing unusual chromatographic pattern of fluorescing substances. *Rev. Brasil. Biol.* 23:401-407.
1964. "*Drosophila wingei*", a new Brazilian species of the "*dreyfusi*" group. *Rev. Brasil. Biol.* 24:1-4.

COVA-GARCÍA, P. & O. M. SUÁREZ

1962. Especies del genero *Drosophila* encontradas hasta ahora en Venezuela. *Rev. Venez. Sanidad y Asistencia Social* 27(2):317-351, 30 figs.

CUNHA, A. BRITO DA

1955. Sobre duas raças de "*Drosophila neocardini*" Streisinger (Drosophilidae, Diptera). *Rev. Brasil. Biol.* 15:117-125.



- CURRAN, C. H.  
1934. The Diptera of Kartabo, Bartica District, British Guiana. *Bull. Amer. Mus. Nat. Hist.* 66:287-439.
- CZERNY, L.  
1903. Ueber *Drosophila costata* und *fuscimana* Ztt. (Dipt.). *Ztschr. f. System. Hymenopt. u. Dipt.* 3:198-201.
- DOBZHANSKY, T.  
1946. Complete reproductive isolation between two morphologically similar species of *Drosophila*. *Ecology* 27:205-211.
- DOBZHANSKY, T. & C. PAVAN  
1943. Studies on Brazilian species of *Drosophila*. *Bol. Fac. Filos., Ciênc. e Letras Univ. S. Paulo* (36), *Biologia Geral* 4:7-72, illus.
- DOLESCHALL, C. L.  
[1858]. Derde bijdrage tot de kennis der dipteren fauna van Nederlandsch Indië. *Natuurk. Tijdschr. v. Nederland. Indië* (1858-1859) 17[= ser. 4, 3]:73-128.
- DREYFUS, A. & R. DE BARROS  
1942. Mutations chromosomiques chez les hybrides de *Drosophila mercatorum* *pararepleta* X *D. paranaensis*. *São Paulo Medico* 21(1-2):11-18.
- DUDA, O.  
1923. Die orientalischen und australischen Drosophiliden-Arten (Dipteren) des Ungarischen National-Museums zu Budapest. *Ann. Mus. Nat. Hung.* 20:24-59.  
1924. Beitrag zur Systematik der Drosophiliden unter besonderer Berücksichtigung der paläarktischen u. orientalischen Arten (Dipteren). *Arch. f. Naturgesch.* (A)90(3):172-234, 7 pls.  
1925. Die costaricanischen Drosophiliden des Ungarischen National-Museums zu Budapest. *Ann. Mus. Nat. Hung.* 22:149-229, 14 figs.  
1927. Die südamerikanischen Drosophiliden unter Berücksichtigung auch der anderen neotropischen sowie der nearktischen Arten. *Arch. f. Naturgesch.* (A)91(11-12) (1925):1-228.  
1929. Die Ausbeute der Deutschen Chaco-Expedition 1925/26 (Diptera). VI. Sepsidae, VII. Piophilidae, VIII. Cypselidae, IX. Drosophilidae und X. Chloropidae; X. Chloropidae (Fortsetzung). *Konowia* 8:33-50, 6 figs.; 165-169, 1 fig.  
1940. Revision der afrikanischen Drosophiliden (Diptera). II. *Ann. Mus. Nat. Hung.* 33:19-53.
- FABRICIUS, J. C.  
1787. *Mantissa insectorum sistens species nuper detectas* 2:382 pp. Hafniae [= Copenhagen].
- FIGUEIREDO, E. R., JR.  
1938. A mosca *Pseudiasata brasiliensis*, predadora do cochinilha. *Pseudococcus brevipes*. *O Biológico*, São Paulo 4(6):206-207.

FREY, R.

1918. Mitteilungen über südamerikanische Dipteren. *Öfversigt af Finska Vetensk. Soc. Förhandl.* (A: Mat. och Naturvetensk.) (1919) 60(14):1-35, 1 pl.

FROLOVA, S. L. & B. L. ASTAUROV

1929. Die Chromosomengarnitur als systematisches Merkmal. (Eine vergleichende Untersuchung der russischen und amerikanischen *Drosophila obscura* Fall.). *Ztschr. f. Zellforsch. u. Mikrosk. Anat.* (1930)10:201-213, 9 figs.

FROTA-PESSOA, O.

1945. Sobre o subgênero "*Hirtodrosophila*", com descrição de uma nova espécie (Diptera, Drosophilidae, *Drosophila*). *Rev. Brasil. Biol.* 5:469-483, 4 figs.
1946. *Bunostoma brasiliensis* n. sp. (Drosophilidae — Diptera). *Summa Brasil. Biol.*, Rio de Janeiro 1:175-178, illus.
1947. Revisão do genero *Clastopteromyia* (em cuja sinonímia é colocada *Diathoneura*), com descrição de 9 espécies novas. *Summa Brasil. Biol.* 1:181-241, illus.
1951. "*Drosophila (Hirtodrosophila) magnarcus*" n. sp. (Diptera, Drosophilidae). *Rev. Brasil. Biol.* 11:407-411.
1954. Revision of the *tripunctata* group of *Drosophila* with description of fifteen new species (Drosophilidae, Diptera). *Arq. Mus. Paranaense*, Curitiba 10:253-304, illus.

FROTA PESSOA, O. & M. R. WHEELER

1951. A revision of the genus "*Neotanygastrella*" Duda (Diptera, Drosophilidae). *Rev. Brasil. Biol.* 11:145-151.

FRYDENBERG, O.

- 1956a. Two new species of *Drosophila* from Peru (Drosophilidae, Diptera). *Rev. Brasil. Ent.* 6:57-64.
- 1956b. "*Drosophila pallidipennis*" from Peru (Diptera, Drosophilidae). *Rev. Brasil. Biol.* 16:287-294.

FUTCH, D. G.

1962. Hybridization tests within the *cardini* species group of the genus *Drosophila*. *Univ. Texas Publ.* 6205:539-554.

GONÇALVES, C. R.

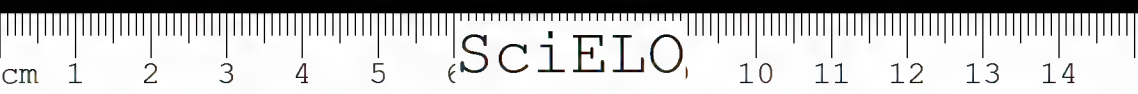
1939. Biologia de uma *Pseudiasta* depredadora de *Pseudococcus brevipipes* (Diastatidae: Drosophilidae). *Physis*, Buenos Aires 17:103-112, illus.

HACKMAN, W.

1959. On the genus *Scaptomyza* Hardy (Dipt., Drosophilidae), with descriptions of new species from various parts of the world. *Acta Zool. Fenn.* 97:1-73, 74 figs.

HARDY, J.

1849. Notes on the remedies for the turnip-fly amongst the ancients, and on the turnip-fly of New Holland, with a notice of a new genus and species of Diptera. *Hist. Berwickshire Nat. Club* (1842-1849)2:359-362.



- HEED, W. B.
1956. Apuntes sobre la ecología y la dispersión de los Drosophilidae (Diptera) de El Salvador. *Comm. Inst. Trop. Invest. Cient.*, San Salvador 5:59-74.
1957. Ecological and distributional notes on the Drosophilidae (Diptera) of El Salvador. *Univ. Texas Publ.* 5721:62-78.
1962. Genetic characteristics of island populations. *Univ. Texas Publ.* 6205:173-206.
- HEED, W. B. & N. B. KRISHNAMURTHY
1959. Genetic studies on the *cardini* group of *Drosophila* in the West Indies. *Univ. Texas Publ.* 5914:155-179.
- HEED, W. B. & M. R. WHEELER
1957. Thirteen new species in the genus *Drosophila* from the Neotropical region. *Univ. Texas Publ.* 5721:17-38.
- HENDEL, F.
- 1913a. Neue amerikanische Dipteren. 1. Beitrag. *Deutsch. Ent. Ztschr.* 1913:617-636, 5 figs.
- 1913b. Neue Drosophiliden aus Südamerika und Neuguinea. *Ent. Mitt.* 2(12):386-390.
1917. Beiträge zur Kenntnis der acalyptraten Musciden. *Deutsch. Ent. Ztschr.* 1917:33-47, 3 figs.
1936. Ergebnisse einer zoologischen Sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny. X. Teil. Diptera: Muscidae Acalyptratae (excl. Chloropidae). *Ann. Naturhist. Mus. Wien* 47:61-106, 5 figs.
- HUNTER, A. S.
1966. High altitude *Drosophila* of Colombia (Diptera: Drosophilidae). *Ann. Ent. Soc. Amer.* 59:413-423.
- HUNTER, A. S. & R. A. HUNTER
1964. The *mesophragmatica* species group of *Drosophila* in Colombia. *Ann. Ent. Soc. Amer.* 57:732-736.
- JAEGER, C. P. & F. M. SALZANO
1953. "*Drosophila gaucha*", a new species from Brazil. *Rev. Brasil. Biol.* 13:205-208.
- JOHNSON, C. W.
1921. New Diptera from Texas and Mexico. *Psyche* 28:56-59.
- KAHI, H.
1917. Notes upon the genus *Leucophenga* Mik (Diptera) with descriptions of some new species from South America, West Africa, and the Philippine Islands. *Ann. Carnegie Mus.* 11:364-393.
- KASTRITSIS, C. & T. DOBZHANSKY
1967. *Drosophila pavlovskiana*, a race or a species. *Amer. Midland Nat.* 78:244-247.
- KING, J. C.
1947. A comparative analysis of the chromosomes of the *guarani* group of *Drosophila*. *Evolution* 1:48-62.



LAMB, C. G.

1914. The Percy Sladen Trust Expedition to the Indian Ocean in 1905, under the leadership of Mr. J. Stanley Gardiner, M. A. Vol. V. No. XV. Diptera: Heteroneuridae, Ortalidae, Trypetidae, Sepidae, Micropezidae, Drosophilidae, Geomyzidae, Milichiidae. *Trans. Linn. Soc. London* (2), Zool. 16:307-372, 48 figs., 3 pls.
1918. On a parasitic *Drosophila* from Trinidad. *Bull. Ent. Res.* 9:157-162.

LIMA, A. DA COSTA

1935. Um drosophilideo predador de coccideos. *Chacaras e Quintais*, São Paulo 52:61-63, 2 figs.
1937. Outras moscas cujas larvas são predadoras de coccideos. *Chacaras e Quintais*, São Paulo 55:179-182, 6 figs.
1950. Duas especies de *Gitona* predadoras de coccideos do gênero *Orthezia* (Diptera: Drosophilidae). *Arthropoda* 1:249-253.

LOEW, H.

1862. Diptera Americae septentrionalis indigena. Centuria secunda. *Berlin. Ent. Ztschr.* 6:185-232. (Also separately published, 1864).
1866. Diptera Americae septentrionalis indigena. Centuria sexta. *Berlin. Ent. Ztschr.* (1865)9:127-186. (Also separately published, 1872:1-60).
1872. Diptera Americae septentrionalis indigena. Centuria decima. *Berlin. Ent. Ztschr.* 16:49-115. (Also separately published, 1872: 225-291).

MACQUART, J.

1843. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts, Lille* 1842:162-460, 36 pls. (Also published separately, as vol. 2(3):5-304, 36 pls., Paris, 1843).

MAGALHÃES, L. E.

1956. Description of four new species of the "saltans" group of "*Drosophila*" (Diptera). *Rev. Brasil. Biol.* 16:273-280.
1962. Notes on the taxonomy, morphology and distribution of the saltans group of *Drosophila*, with description of four new species. *Univ. Texas Publ.* 6205:135-154.

MAGALHÃES, L. E. & A. J. S. BJÖRNBERG

1957. Estudo da genitalia masculina de "*Drosophila*" do grupo "saltans" (Diptera). *Rev. Brasil. Biol.* 17:435-450.

MAINLAND, G. B.

1941. Studies in *Drosophila* speciation. III. The *Drosophila macropina* group. *Genetics* 26:160-161.

MALOGOLOWKIN, C.

1946. Sobre o gênero "*Rhinoleucophenga*", com descrição de cinco especies novas (Drosophilidae, Diptera). *Rev. Brasil. Biol.* 6:415-426.
1951. Drosofilideos colhidos na Bahia, com descrição de uma espécie nova (Diptera). *Rev. Brasil. Biol.* 11:431-434.
1952. Notas sobre "*Zygothrica dispar*" (Diptera, Drosophilidae). *Rev. Brasil. Biol.* 12:455-457.

1958. Sobre a genitália dos drosophilídeos. V. A genitália masculina em "*D. mangabeirai*". *Rev. Brasil. Biol.* 18:443-445.
- MALLOCH, J. R.
1921. Some notes on Drosophilidae (Diptera). *Ent. News* 32:311-312.
- 1924a. The American species of the drosophilid genus *Stegana* (Diptera). *Ent. News* 35:96-100.
- 1924b. Descriptions of neotropical two-winged flies of the family Drosophilidae. *Proc. U. S. Nat. Mus.* 66(3):1-11.
1926. New genera and species of acalyptrate flies in the United States National Museum. *Proc. U. S. Nat. Mus.* 68(21):1-35, 2 pls.
1934. [Family Drosophilidae], in *Diptera of Patagonia and South Chile* 6(5):436-452, illus.
- MALLOCH, J. R. & W. L. MCATEE
1924. Flies of the family Drosophilidae of the District of Columbia region, with keys to genera, and other notes, of broader application. *Proc. Biol. Soc. Wash.* 37:25-41, pls. 8-9.
- MCALPINE, J. F.
1968. An annotated key to drosophilid genera with bare or micro-pubescent aristae and a revision of *Paracacoxenus* (Diptera: Drosophilidae). *Canad. Ent.* 100:514-532.
- MEIGEN, J. W.
1830. *Systematische Beschreibung der bekannte europäischen zweiflügeligen Insekten* 6:iv+401 pp., pls. 55-66. Hamm.
- MIK, J.
1886. Dipterologische Miscellen. I; II; III. *Wien. Ent. Ztg.* 5:101-102, 276-279, 317-318.
- MOURÃO, C. A. & H. E. M. DE C. BICUDO
1967. Duas novas espécies de *Drosophila* do grupo "*saltans*" (Drosophilidae, Diptera). *Papéis Avulsos de Zoologia*, São Paulo 20(12):123-134, 10 figs.
- MOURÃO, C. A. & A. J. GALLO
1967. Considerações sobre o grupo "*tripunctata*" (*Drosophila*), com descrição de *D. mirassolensis*, nova espécie brasileira. *Papéis Avulsos de Zoologia*, São Paulo 20(11):117-122, 7 figs.
- MOURÃO, C. A., A. J. GALLO & H. E. M. DE C. BICUDO
1965. Sobre a sistemática de *Drosophila* no Brasil, com descrição de "*D. mendeli*" sp. n. e "Relação de espécies brasileiras do gênero *Drosophila*." *Ciência e Cultura*, São Paulo 17(4):577-586, 2 figs.
1967. *Drosophila morgani*, nova espécie brasileira (Drosophilidae, Diptera). *Papéis Avulsos de Zoologia*, São Paulo 20(15):159-164, 5 figs.
- NACRUR, J.
1958. Genitália masculina de "*Drosophila*" do grupo "*mesophragmatica*" (Diptera). *Rev. Brasil. Biol.* 18:243-249.



OKADA, T.

1968. *Systematic study of the early stages of Drosophilidae*, 188 pp., 83 figs. Bungazugeisha Co., Ltd. Tokyo.

OLDENBERG, L.

1914. Beitrag zur Kenntnis der europäischen Drosophiliden. *Arch. f. Naturgesch.* (A) 80(2):1-42.  
1915. Berichtigung zu meiner Drosophilidenarbeit. *Arch. f. Naturgesch.* (1914) (A) 80(9):93.

PATTERSON, J. T.

1941. In Sturtevant, A. H. & E. Novitski: Sterility in crosses of geographical races of *Drosophila micromelanica*. *Proc. Nat. Acad. Sci.* 27:392-394.  
1943. Studies in the genetics of *Drosophila*. III. The Drosophilidae of the southwest. *Univ. Texas Publ.* 4313:7-216, illus.  
1952. A pair of allopatric subspecies belonging to the *repleta* species group. *Univ. Texas Publ.* 5204:114-118.

PATTERSON, J. T. & M. L. ALEXANDER

1952. *Drosophila wheeleri*, a new member of the *mulleri* subgroup, pp. 129-136, 1 fig., in Patterson, J. T., Studies in the genetics of *Drosophila*. VII. Further articles on genetics, cytology and taxonomy. *Univ. Texas Publ.* 5204:1-251, 64 figs.

PATTERSON, J. T. & J. F. CROW

1940. XII. Hybridization in the *mulleri* group of *Drosophila*, pp. 251-256, in Patterson, J. T., Studies in the genetics of *Drosophila* [I]. *Univ. Texas Publ.* 4032:1-256, 18 figs., 4 pls.

PATTERSON, J. T. & G. B. MAINLAND

1944. The Drosophilidae of Mexico, pp. 9-101, 16 pls., in Patterson, J. T., Studies in the genetics of *Drosophila*. IV. Papers dealing with the taxonomy, nutrition, cytology and interspecific hybridization in *Drosophila*. *Univ. Texas Publ.* 4445:1-223, 8 figs., 23 pls.

PATTERSON, J. T. & W. S. STONE

1952. *Evolution in the genus Drosophila*, 610 pp., 68 figs. New York.

PATTERSON, J. T. & R. P. WAGNER

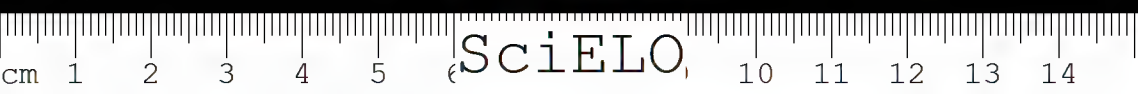
1943. Geographical distribution of species of the genus *Drosophila* in the United States and Mexico. *Univ. Texas Publ.* 4313:217-253, illus.

PATTERSON, J. T. & M. R. WHEELER

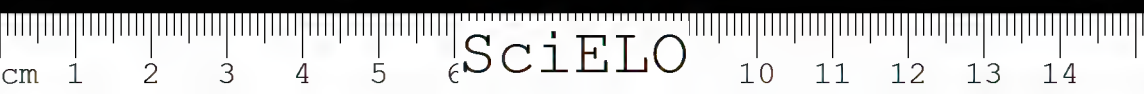
1942. Description of new species of the subgenera *Hirtodrosophila* and *Drosophila*. *Univ. Texas Publ.* 4213:67-109.  
1949. Catalogue of described species belonging to the genus *Drosophila* with observations on their geographical distribution. *Univ. Texas Publ.* 4920:207-233.

PAVAN, C.

1950. Especies brasileiras de *Drosophila*. II. *Bol. Fac. Filos., Ciênc. e Letras Univ. S. Paulo* (111), *Biol. Geral* 8:3-37.



- PAVAN, C. & M. E. BREUER  
1954. Two new species of "*Drosophila*" of the "*dreyfusi*" group (Diptera). *Rev. Brasil. Biol.* 14:459-463.
- PAVAN, C. & A. B. DA CUNHA  
1947. Especies brasileiras de *Drosophila*. *Bol. Fac. Filos., Ciênc. e Letras Univ. S. Paulo* (86), *Biol. Geral* 7:3-46.
- PAVAN, C. & J. NÄCRUR  
1950. Duas novas especies de *Drosophila* (Diptera) do grupo *annulimana*. *Dusenía* 1:263-274.
- PIPKIN, S. B.  
1964. New flower breeding species of *Drosophila* (Diptera: Drosophilidae). *Proc. Ent. Soc. Wash.* 66:217-245.  
1965. The influence of adult and larval food habits on population size of neotropical ground-infesting *Drosophila*. *Amer. Midland Nat.* 74:1-27.  
1966. A new flower-feeding species of *Drosophila*. *Proc. Ent. Soc. Wash.* 68:4-5.  
1967. A new member of a sibling set belonging to the *Drosophila tripunctata* group (Diptera: Drosophilidae). *Proc. Ent. Soc. Wash.* 69:111-114.  
1968. Introgression between closely related species of *Drosophila* in Panama. *Evolution* 22:140-156.
- PIPKIN, S. B. & W. B. HEED  
1964. Nine new members of the *Drosophila tripunctata* species group (Diptera: Drosophilidae). *Pacific Insects* 6:256-273.
- PIPKIN, S. B., R. L. RODRIGUEZ & J. LEON  
1966. Plant host specificity among flower-feeding neotropical *Drosophila* (Diptera: Drosophilidae). *Amer. Naturalist* 100:135-156.
- PIPKIN, S. B. & W. W. WIRTH  
1965. Lectotypes of Panama *Drosophila*. *Proc. Ent. Soc. Wash.* 67:147-148.
- SABROSKY, C. W.  
1951. Two new species of *Pseudiastata* (Dipt., Drosophilidae) predacious on the pineapple mealybug. *Bull. Ent. Res.* 41:623-627.
- SCHINER, J. R.  
1862. Vorläufige Commentar zum dipterologischen Theile der "Fauna Austriaca". V. *Wien. Ent. Monatschr.* 6:428-436.  
1868. Diptera. [Art. 1], 388 pp., 4 pls. in [Wüllersdorf-Urbair, B. von, in charge], *Reise der österreichischen Fregatte Novara*, Zool. 2(1, B). Wien.
- SÉGUY, E.  
1934. Étude sur quelques muscides de l'Amérique Latine. *Rev. Soc. Ent. Argentina* 6:9-16.
- SPASSKY, B.  
1957. Morphological differences between sibling species of *Drosophila*. *Univ. Texas Publ.* 5721:48-61.





SPENCER, W. P.

1942. New species in the *quinaria* group of the subgenus *Drosophila*. *Univ. Texas Publ.* 4213:55-66.

STALKER, H. D.

1953. Taxonomy and hybridization in the *cardini* group of *Drosophila*. *Ann. Ent. Soc. Amer.* 46:343-358.

STALKER, H. D. & W. P. SPENCER

1939. Four new species of *Drosophila*, with notes on the *funnebris* group. *Ann. Ent. Soc. Amer.* 32:105-112.

STREISINGER, G.

1946. The *cardini* species group of the genus *Drosophila*. *Jour. N. Y. Ent. Soc.* 54:105-113.

STURTEVANT, A. H.

1916. Notes on North American Drosophilidae with descriptions of twenty-three new species. *Ann. Ent. Soc. Amer.* 9:323-343.  
1918. Acalypterae (Diptera) collected in Mobile County, Alabama. *Jour. N. Y. Ent. Soc.* 26:34-40.  
1919. A new species closely resembling *Drosophila melanogaster*. *Psyche* 26:153-155.  
1920. The dipterous genus *Zygothrica* of Wiedemann. *Proc. U. S. Nat. Mus.* 58:155-158.  
1921. The North American species of *Drosophila*. *Carnegie Inst. Wash. Publ.* 301:150 pp., illus.  
1939. On the subdivision of the genus *Drosophila*. *Proc. Nat. Acad. Sci.* 25:137-141.  
1942. The classification of the genus *Drosophila*, with descriptions of nine new species. *Univ. Texas Publ.* 4213:5-51.

STURTEVANT, A. H. & T. DOBZHANSKY

1936. Observations on the species related to *Drosophila affinis* with descriptions of seven new forms [corrected title]. *Amer. Naturalist* 70:574-584.

TAKADA, H.

1965. Differentiation of the external male genitalia in the Drosophilidae. *Kushiro Women's College Publ.* 1:39-50 [In Japanese; summary in English, pp. 131-132].

THOMSON, C. G.

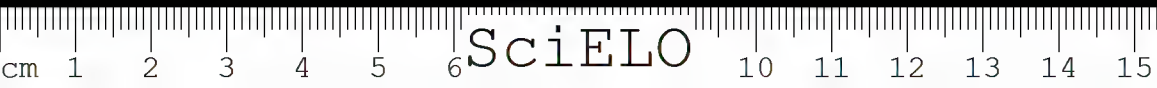
1869. *Kongliga Svenska Fregatten Eugenie's Resa omkring Jorden. Vetenskapliga Iakktagelser, Zoologi 1: Insecta, Häft 12, Diptera: 443-614* (1868).

THROCKMORTON, L. H.

1962. The problem of phylogeny in the genus *Drosophila*. *Univ. Texas Publ.* 6205:207-343, illus.

TOWNSEND, J. I.

1954. Cryptic subspeciation in *Drosophila* belonging to the subgenus *Sophophora*. *Amer. Nat.* 88:339-351.



TOWNSEND, J. I. & M. R. WHEELER

1955. Notes on Puerto Rican Drosophilidae, including descriptions of two new species of *Drosophila*. *Jour. Agric. Univ. P. Rico* 39: 57-64.

WALKER, F.

1849. *List of the specimens of dipterous insects in the collection of the British Museum*. Vol. 4:689-1172. London.
1852. Diptera, in W. W. Saunders: *Insecta Saundersiana*, Vol. 1: pp. 157-414, 4 pls. London.
1861. Characters of undescribed Diptera in the collection of W. W. Saunders [concl.]. *Trans. Ent. Soc. London*, n. ser. 5:297-334.

WASSERMAN, M.

- 1962a. Cytological studies of the *repleta* group of the genus *Drosophila*. III. The *mercatorum* subgroup. *Univ. Texas Publ.* 6205: 63-71.
- 1962b. Cytological studies of the *repleta* group of the genus *Drosophila*. IV. The *hydei* subgroup. *Univ. Texas Publ.* 6205:73-83.
- 1962c. Cytological studies of the *repleta* group of the genus *Drosophila*. V. The *mulleri* subgroup. *Univ. Texas Publ.* 6205:85-117.
- 1962d. Cytological studies of the *repleta* group of the genus *Drosophila*. VI. The *fasciola* subgroup. *Univ. Texas Publ.* 6205:119-134.

WASSERMAN, M. & F. D. WILSON

1957. Further studies on the *repleta* group. *Univ. Texas Publ.* 5721:132-156.

WHEELER, MARSHALL R.

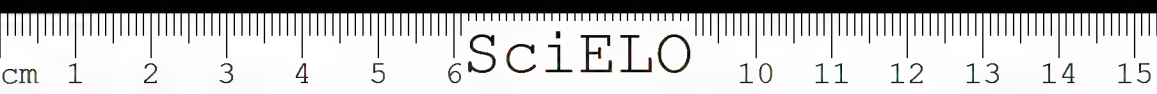
- 1949a. Taxonomic studies on the Drosophilidae. *Univ. Texas Publ.* 4920:157-195.
- 1949b. The subgenus *Pholadoris* (*Drosophila*) with descriptions of two new species. *Univ. Texas Publ.* 4920:143-156.
1952. The Drosophilidae of the Nearctic Region exclusive of the genus *Drosophila*. *Univ. Texas Publ.* 5204:162-218.
1954. Taxonomic studies on American Drosophilidae. *Univ. Texas Publ.* 5422:47-64.
1956. *Zapriothrica*, a new genus based upon *Sigaloessa dispar* Schiner, 1868 (Diptera, Drosophilidae). *Proc. Ent. Soc. Wash.* 58:113-115.
1957. Taxonomic and distributional studies of Nearctic and Neotropical Drosophilidae. *Univ. Texas Publ.* 5721:79-114.
- 1959a. A nomenclatural study of the genus *Drosophila*. *Univ. Texas Publ.* 5914:181-205.
- 1959b. Three new species of *Zapriothrica* Wheeler (Diptera, Drosophilidae). *Southwestern Nat.* 4:83-87.
- 1960a. Three new North American Drosophilidae. *Southwestern Nat.* 5:89-91.
- 1960b. A new genus and two new species of Neotropical flies (Diptera, Drosophilidae). *Ent. News* 71:207-213.
- 1960c. A new subgenus and species of *Stegana* Meigen (Diptera: Drosophilidae). *Proc. Ent. Soc. Wash.* 62:109-111.
- 1960d. A new subgenus and two new species of *Pseudiastata* Coquillett (Diptera, Drosophilidae). *Bull. Brooklyn Ent. Soc.* 55:67-70.



1961. Some *Drosophilidae* (Diptera) from the Galapagos Islands. *Ann. Ent. Soc. Amer.* 54:750.
1962. *Drosophila melina*, nom. nov. *Proc. Ent. Soc. Wash.* 64:246.
1963. Notes on the extant types of Dr. O. Duda's Costa Rican *Drosophilidae* (Diptera). *Bull. Brooklyn Ent. Soc.* 58:51-61.
1967. Chapt. 55. The Fruitfly (*Drosophila*). in *The U. F. A. W. Handbook: The Care and Management of Laboratory Animals*. 3rd ed. London, Livingstone, Ltd. 1015 pp., illus. [Referenced portion: pp. 906-924].
1968. Some remarkable new species of Neotropical *Drosophilidae*. *Univ. Texas Publ.* 6618:431-442.
- WHEELER, M. R. & L. E. MAGALHÃES
1962. The *alagitans-bocainensis* complex of the *willistoni* group of *Drosophila*. *Univ. Texas Publ.* 6205:155-171.
- WHEELER, M. R. & H. TAKADA
1962. (Descriptions in Wheeler, M. R., H. Takada & D. Brncic) The *flavopilosa* species group of *Drosophila*. *Univ. Texas Publ.* 6205:395-413).
1963. A revision of the American species of *Mycodrosophila* (Diptera; *Drosophilidae*). *Ann. Ent. Soc. Amer.* 56:392-399.
1967. The Nearctic and Neotropical species of *Scaptomyza* Hardy (Diptera; *Drosophilidae*). *Univ. Texas Publ.* 6615(1966):37-78.
- WIEDEMANN, C. R. W.
- 1830a. *Achias* Dipt. Genus. Kiliae.
- 1830b. *Aussereuropäische zweiflügelige Insekten*. Part 2, 684 pp.
- WILLISTON, S. W.
1896. On the Diptera of St. Vincent (West Indies). *Trans. Ent. Soc. London* 1896:253-449, illus.
- WOLLASTON, T. V.
1858. Brief diagnostic characters of undescribed Madeiran insects. *Ann. Mag. Nat. Hist.*, ser. 3:18-28, 113-125.
- ZETTERSTEDT, J. W.
1847. *Diptera Scandinaviae disposita et descripta*. Vol. 6:2163-2580. Lundae.

#### INDEX

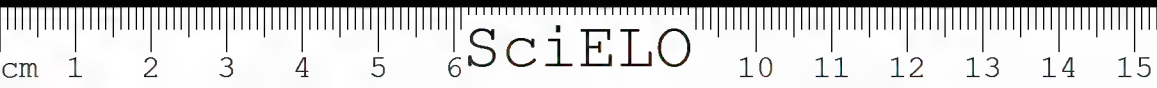
|   |       |
|---|-------|
| aberrans Wheeler, 1957, <i>Clastopteromyia</i> .....                        | 79.8  |
| abregolineata Duda, 1925, <i>Drosophila</i> .....                           | 79.26 |
| acanthoptera Wheeler, 1949, <i>Drosophila</i> .....                         | 79.29 |
| acroria Wheeler & Takada, 1962, <i>Drosophila</i> .....                     | 79.11 |
| acutangula (Hendel), 1913 ( <i>Orthostegana</i> ), <i>Stegana</i> .....     | 79.6  |
| acutilabella Stalker, 1953, <i>Drosophila</i> .....                         | 79.11 |
| acutipennis Malloch, 1926, <i>Leucophenga</i> .....                         | 79.3  |
| addisoni Pavan, 1950, <i>Drosophila</i> .....                               | 79.11 |
| adumbrata (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> ..... | 79.8  |
| adusta (Loew), 1862 ( <i>Drosophila</i> ), <i>Scaptomyza</i> .....          | 79.34 |



|  |       |
|--|-------|
| affinis Malloch, 1924, <i>Stegana</i> .....                                  | 79.6  |
| alafumosa Patterson & Mainland, 1943, <i>Drosophila</i> .....                | 79.26 |
| alagitans Patterson & Mainland, 1943, <i>Drosophila</i> .....                | 79.26 |
| alani Pipkin, 1954, <i>Drosophila</i> .....                                  | 79.29 |
| albavictoria Patterson & Mainland, 1944, <i>Amiota</i> .....                 | 79.2  |
| albescens Frota-Pessoa, 1954, <i>Drosophila</i> .....                        | 79.11 |
| albicans Frota-Pessoa, 1954, <i>Drosophila</i> .....                         | 79.11 |
| albifacies (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> ..... | 79.8  |
| albinota Wheeler, 1957, <i>Clastopteromyia</i> .....                         | 79.8  |
| albirostris Sturtevant, 1921, <i>Drosophila</i> .....                        | 79.11 |
| albitarsis Hendel, 1917, <i>Zygodrosophila</i> .....                         | 79.35 |
| albomarginata Duda, 1927, <i>Drosophila</i> .....                            | 79.11 |
| aldrichi Patterson & Crow, 1940, <i>Drosophila</i> .....                     | 79.11 |
| aldrichi Sturtevant, 1920, <i>Zygothrica</i> .....                           | 79.35 |
| alei Brncic, 1962, <i>Drosophila</i> .....                                   | 79.25 |
| alexandrae Pipkin, 1964, <i>Drosophila</i> .....                             | 79.11 |
| alexandrei Cordeiro, 1951, <i>Drosophila</i> .....                           | 79.29 |
| alfari Sturtevant, 1921, <i>Drosophila</i> .....                             | 79.25 |
| alternolineata Duda, 1925, <i>Drosophila</i> .....                           | 79.11 |
| altiplanica Brncic & Koref Santibañez, 1957, <i>Drosophila</i> .....         | 79.11 |
| americana Patterson, 1943, <i>Gitona</i> .....                               | 79.2  |
| <i>Amiota</i> Loew, 1862 .....   | 79.2  |
| amoena (Loew), 1862 ( <i>Drosophila</i> ), <i>Chymomyza</i> .....            | 79.7  |
| <i>ampelophila</i> Loew, 1862, <i>Drosophila</i> .....                       | 79.27 |
| amplipennis Malloch, 1934, <i>Drosophila</i> .....                           | 79.11 |
| ananassae Doleschall, 1858, <i>Drosophila</i> .....                          | 79.26 |
| anceps Patterson & Mainland, 1944, <i>Drosophila</i> .....                   | 79.11 |
| andina Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                     | 79.11 |
| andina Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                       | 79.34 |
| angustibucca Duda, 1925, <i>Drosophila</i> .....                             | 79.11 |
| angustifrons Malogolowkin, 1946, <i>Rhinoleucophenga</i> .....               | 79.5  |
| annularis Sturtevant, 1916, <i>Drosophila</i> .....                          | 79.11 |
| <i>annulata</i> Williston, 1896, <i>Drosophila</i> .....                     | 79.11 |
| annulimana Duda, 1927, <i>Drosophila</i> .....                               | 79.11 |
| anomala Wheeler, 1954, <i>Paramycodrosophila</i> .....                       | 79.32 |
| antennata Wheeler, 1957, <i>Paraliodrosophila</i> .....                      | 79.32 |
| antica Curran, 1934, <i>Stegana</i> .....                                    | 79.6  |
| antillea Heed, 1962, <i>Drosophila</i> .....                                 | 79.12 |
| antillea Wheeler, 1957, <i>Neotanygastrella</i> .....                        | 79.31 |
| <i>Apacrochaeta</i> Duda, 1927 .....   | 79.38 |
| apicata (Thomson), 1869 ( <i>Drosophila</i> ) <i>Scaptomyza</i> .....        | 79.33 |
| apicipuncta Malloch, 1934, <i>Scaptomyza</i> .....                           | 79.33 |
| apopoeyi Burla, 1956, <i>Zygothrica</i> .....                                | 79.35 |
| appendiculata Malloch, 1934, <i>Drosophila</i> .....                         | 79.11 |
| aracea Heed & Wheeler, 1957, <i>Drosophila</i> .....                         | 79.12 |
| araicas Pavan & Nacur, 1950, <i>Drosophila</i> .....                         | 79.12 |
| arapuan Cunha & Pavan, 1947, <i>Drosophila</i> .....                         | 79.12 |
| ararama Pavan & Cunha, 1947, <i>Drosophila</i> .....                         | 79.12 |
| arassari Cunha & Frota-Pessoa, 1947, <i>Drosophila</i> .....                 | 79.12 |
| araucana Brncic, 1957, <i>Drosophila</i> .....                               | 79.12 |
| arauna Pavan & Nacur, 1950, <i>Drosophila</i> .....                          | 79.12 |
| arawakana Heed, 1962, <i>Drosophila</i> .....                                | 79.12 |
| argenteifrons Wheeler, 1954, <i>Drosophila</i> .....                         | 79.12 |
| argenteiventris Kahl, 1917, <i>Leucophenga</i> .....                         | 79.3  |



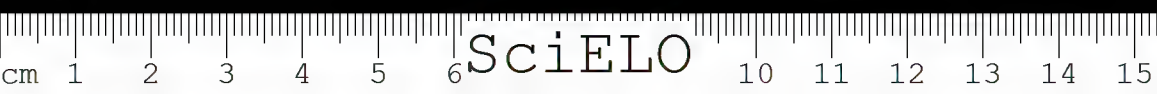
|  |       |
|--|-------|
| argenteofasciata Kahl, 1917, <i>Leucophenga</i> .....                              | 79.3  |
| argentifera Wheeler, 1960, <i>Mayagueza</i> .....                                  | 79.4  |
| arizonensis Patterson & Wheeler, 1942, <i>Drosophila</i> .....                     | 79.12 |
| armata Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....                            | 79.8  |
| armata Wheeler, 1957, <i>Pseudiasata</i> .....                                     | 79.4  |
| atahualpa Hackman, 1959, <i>Scaptomyza</i> .....                                   | 79.34 |
| atra Duda, 1927, <i>Laccodrosophila</i> .....                                      | 79.38 |
| atra Walker, 1852, <i>Drosophila</i> .....   | 79.29 |
| atrata Burla & Pavan, 1953, <i>Drosophila</i> .....                                | 79.12 |
| atriangula Duda, 1927, <i>Zygothrica</i> .....                                     | 79.35 |
| atrifrons Malloch, 1924, <i>Stegana</i> .....                                      | 79.6  |
| atrimana Malloch, 1924, <i>Stegana</i> .....                                       | 79.6  |
| aurea Patterson & Mainland, 1944, <i>Drosophila</i> .....                          | 79.12 |
| aureata Wheeler, 1957, <i>Drosophila</i> .....                                     | 79.12 |
| aureopallescens Pipkin, 1964, <i>Drosophila</i> .....                              | 79.12 |
| austroropleta Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                    | 79.21 |
| austrosaltans Spassky, 1957, <i>Drosophila</i> .....                               | 79.26 |
| avittata Duda, 1925, <i>Zygothrica</i> .....                                       | 79.37 |
| azteca Sturtevant & Dobzhansky, 1936, <i>Drosophila</i> .....                      | 79.26 |
| <i>baeomyia</i> Wheeler, 1949, <i>Drosophila</i> .....                             | 79.25 |
| bandeirantorum Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                   | 79.12 |
| barretti (Johnson), 1921 ( <i>Stegana</i> ), <i>Amiota</i> .....                   | 79.2  |
| belladunni Heed & Krishnamurthy, 1959, <i>Drosophila</i> .....                     | 79.12 |
| bellula Williston, 1896, <i>Drosophila</i> .....                                   | 79.28 |
| betari Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                           | 79.12 |
| bezzii Duda, 1927, <i>Leucophenga</i> .....  | 79.4  |
| bezzii Duda, 1927, <i>Rhinoleucophenga</i> .....                                   | 79.5  |
| bicolor Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....                           | 79.8  |
| bicoloripes (Malloch), 1926 ( <i>Drosophila</i> ), <i>Chymomyza</i> .....          | 79.7  |
| bifilum Frota-Pessoa, 1954, <i>Drosophila</i> .....                                | 79.12 |
| bifurca Patterson & Wheeler, 1942, <i>Drosophila</i> .....                         | 79.12 |
| bilineata (Williston), 1896 ( <i>Drosophila</i> ), <i>Zygothrica</i> .....         | 79.35 |
| himaculata (Loew), 1865 ( <i>Drosophila</i> ), <i>Leucophenga</i> .....            | 79.3  |
| biopaca Sturtevant, 1942, <i>Drosophila</i> .....                                  | 79.28 |
| bipartita Duda, 1925, <i>Paraliodrosophila</i> .....                               | 79.32 |
| bipunctata Patterson & Mainland, 1943, <i>Drosophila</i> .....                     | 79.12 |
| bivisualis Patterson, 1943, <i>Gitona</i> .....                                    | 79.3  |
| blumelae Pipkin & Heed, 1964, <i>Drosophila</i> .....                              | 79.12 |
| bocainensis Pavan & Cunha, 1947, <i>Drosophila</i> .....                           | 79.26 |
| bocainoides Carson, 1954, <i>Drosophila</i> .....                                  | 79.26 |
| bodemannae Pipkin & Heed, 1964, <i>Drosophila</i> .....                            | 79.12 |
| bogotae Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                            | 79.33 |
| boletina Duda, 1927, <i>Drosophila</i> .....                                       | 79.13 |
| boliviana Duda, 1927, <i>Drosophila</i> .....                                      | 79.13 |
| boliviensis Duda, 1927, <i>Drosophila</i> .....                                    | 79.26 |
| boliviensis Duda, 1927, <i>Neotanygastrella</i> .....                              | 79.32 |
| bomplandi (Malloch), 1934 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....     | 79.8  |
| borgmeieri (Duda), 1927 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....       | 79.8  |
| brasiliensis Lima, 1950, <i>Gitona</i> .....                                       | 79.3  |
| brasiliensis (Frota-Pessoa), 1946 ( <i>Bunostoma</i> ), <i>Neotanygastrella</i> .. | 79.32 |
| brasiliensis Lima, 1937, <i>Pseudiasata</i> .....                                  | 79.4  |
| brasiliensis (Duda), 1927 ( <i>Protostegana</i> ), <i>Stegana</i> .....            | 79.6  |
| brazilensis Malloch, 1924, <i>Leucophenga</i> .....                                | 79.3  |



|  |       |
|--|-------|
| <i>brevicarinata</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....        | 79.13 |
| <i>breviplumata</i> Duda, 1927, <i>Rhinoleucophenga</i> .....                  | 79.5  |
| <i>briegeri</i> Pavan & Breuer, 1954, <i>Drosophila</i> .....                  | 79.13 |
| <i>brncici</i> Hunter & Hunter, 1964, <i>Drosophila</i> .....                  | 79.13 |
| <i>bromeliae</i> Sturtevant, 1921, <i>Drosophila</i> .....                     | 79.13 |
| <i>bromelioides</i> Pavan & Cunha, 1947, <i>Drosophila</i> .....               | 79.13 |
| <i>brunnea</i> Malloch, 1924, <i>Stegana</i> .....                             | 79.6  |
| <i>brunneipalpa</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....          | 79.13 |
| <i>brunneipennis</i> Kahl, 1917, <i>Leucophenga</i> .....                      | 79.3  |
| <i>brunnescens</i> Wheeler & Takada, 1963, <i>Mycodrosophila</i> .....         | 79.31 |
| <i>busckii</i> Coquillett, 1910, <i>Drosophila</i> .....                       | 79.11 |
| <i>buzzatii</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....             | 79.13 |
| <i>Calatila</i> Strand, 1927 .....   | 79.10 |
| <i>calloptera</i> Schiner, 1868, <i>Drosophila</i> .....                       | 79.13 |
| <i>camargoi</i> Dobzhansky & Pavan, 1950, <i>Drosophila</i> .....              | 79.13 |
| <i>camaronensis</i> Brncic, 1957, <i>Drosophila</i> .....                      | 79.13 |
| <i>campestris</i> Burla, 1950, <i>Drosophila</i> .....                         | 79.14 |
| <i>canalineae</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....          | 79.13 |
| <i>canalinoides</i> Wheeler, 1957, <i>Drosophila</i> .....                     | 79.13 |
| <i>canapalpa</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....           | 79.13 |
| <i>candens</i> Burla, 1956, <i>Zygothrica</i> .....                            | 79.35 |
| <i>canescens</i> Duda, 1937, <i>Drosophila</i> .....                           | 79.29 |
| <i>capnoptera</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....          | 79.26 |
| <i>caponei</i> Pavan & Cunha, 1947, <i>Drosophila</i> .....                    | 79.13 |
| <i>capricorni</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....            | 79.26 |
| <i>carbonaria</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....           | 79.13 |
| <i>carcinophila</i> Wheeler, 1960, <i>Drosophila</i> .....                     | 79.13 |
| <i>cardini</i> Sturtevant, 1916, <i>Drosophila</i> .....                       | 79.13 |
| <i>cardinoides</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....           | 79.13 |
| <i>caribea</i> Sturtevant, 1916, <i>Drosophila</i> .....                       | 79.26 |
| <i>caribiana</i> Heed, 1962, <i>Drosophila</i> .....                           | 79.13 |
| <i>carrerae</i> Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....               | 79.8  |
| <i>castanea</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....            | 79.14 |
| <i>caudata</i> (Hendel), 1913 ( <i>Drosophilura</i> ), <i>Zygothrica</i> ..... | 79.35 |
| <i>cavalcantii</i> Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....            | 79.9  |
| <i>caxiensis</i> Cordeiro, 1952, <i>Drosophila</i> .....                       | 79.23 |
| <i>centralis</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....           | 79.20 |
| <i>centralis</i> Wheeler, 1954, <i>Paramycodrosophila</i> .....                | 79.32 |
| <i>chaco</i> Wheeler, 1968, <i>Leucophenga</i> .....                           | 79.3  |
| <i>changuinolae</i> Wheeler & Magalhães, 1962, <i>Drosophila</i> .....         | 79.26 |
| <i>Chusqueophila</i> Brncic, 1957 .....  | 79.10 |
| <i>Chymomyza</i> Czerny, 1903 .....  | 79.7  |
| <i>chymomyzoides</i> Duda, 1927, <i>Neotanygastrella</i> .....                 | 79.32 |
| <i>Cladochaeta</i> Coquillett, 1900 .....                                      | 79.8  |
| <i>Clastopteromyia</i> Malloch, 1924 .....                                     | 79.8  |
| <i>clavifera</i> Wheeler & Takada, 1967, <i>Scaptomyza</i> .....               | 79.34 |
| <i>clavipeoyi</i> Burla, 1956, <i>Zygothrica</i> .....                         | 79.35 |
| <i>clypeata</i> Wheeler, 1968, <i>Drosophila</i> .....                         | 79.23 |
| <i>clypeata</i> Burla, 1956, <i>Zygothrica</i> .....                           | 79.35 |
| <i>clypeora</i> Wheeler, 1968, <i>Drosophila</i> .....                         | 79.24 |
| <i>coffeata</i> Williston, 1896, <i>Drosophila</i> .....                       | 79.29 |
| <i>columbiensis</i> Duda, 1927, <i>Apacrochaeta</i> .....                      | 79.38 |
| <i>comosa</i> Wheeler, 1968, <i>Drosophila</i> .....                           | 79.14 |



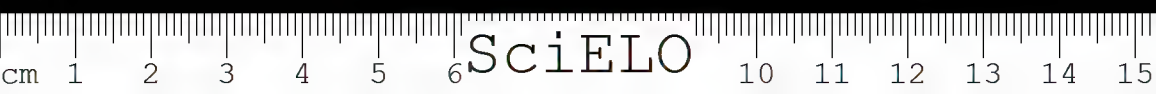
|  |              |
|--|--------------|
| conformis Malloch, 1924, Stegana .....                       | 79.6         |
| <i>conjuncta</i> Duda, 1929, Leucophenga .....               | 79.3         |
| converga Heed & Wheeler, 1957, Drosophila .....              | 79.14        |
| coquilletti Wheeler & Takada, 1967, Scaptomyza .....         | 79.33        |
| cordata Sturtevant, 1942, Drosophila .....                   | 79.26        |
| coroica Wasserman, 1962, Drosophila .....                    | 79.14        |
| costaricana Duda, 1925, Paramycodrosophila .....             | 79.32        |
| crassa Patterson & Mainland, 1944, Drosophila .....          | 79.14        |
| cristimana Malloch, 1924, Stegana .....                      | 79.6         |
| crocina Patterson & Mainland, 1944, Drosophila .....         | 79.14        |
| crossoptera Wheeler & Takada, 1962, Drosophila .....         | 79.14        |
| cruciata (Duda), 1925 (Diathoneura), Clastopteromyia .....   | 79.9         |
| cubana Townsend, 1954, Drosophila .....                      | 79.28        |
| curvapex Frota-Pessoa, 1954, Drosophila .....                | 79.14        |
| cuzcoica Duda, 1927, Drosophila .....                        | 79.29        |
| dacunhai Mourão & Bicudo, 1967, Drosophila .....             | 79.26        |
| dankoi Wheeler & Takada, 1967, Scaptomyza .....              | 79.23        |
| <i>Dasydrosophila</i> Duda, 1925 .....                       | 79.23        |
| decemseriata Hendel, 1936, Drosophila .....                  | 79.29        |
| denieri Blanchard, 1938, Drosophila .....                    | 79.25        |
| <i>dentata</i> Duda, 1927, Drosophila .....                  | 79.15        |
| denticauda Malloch, 1934, Scaptomyza .....                   | 79.33        |
| Dentiscaptomyza Takada, 1965 .....                           | 79.33        |
| desertorum Wasserman, 1962, Drosophila .....                 | 79.14        |
| Dettopsomyia Lamb, 1914 .....                                | 79.10        |
| <i>Diathoneura</i> Duda, 1925 .....                          | 79.8         |
| dilacerata Becker, 1919, Drosophila .....                    | 79.29        |
| dimidiata (Loew), 1862 (Drosophila), Mycodrosophila .....    | 79.31        |
| dimidiata Duda, 1927, Zygothrica .....                       | 79.36        |
| dispar (Schiner), 1868 (Sigaloessa), Zapriothrica .....      | 79.38        |
| dispar (Wiedemann), 1830 (Achias), Zygothrica .....          | 79.36        |
| <i>dissimilis</i> Malloch, 1934, Scaptomyza .....            | 79.33        |
| divisa Duda, 1927, Drosophila .....                          | 79.14        |
| dobzhanskii Patterson, 1943, Drosophila .....                | 79.26        |
| Dorsilopha Sturtevant, 1942 .....                            | 79.11        |
| dorsivitta Walker, 1861, Drosophila .....                    | 79.29        |
| dorsolineata Duda, 1925, Stegana .....                       | 79.6         |
| dreyfusi Dobzhansky & Pavan, 1943, Drosophila .....          | 79.14        |
| Drosophila Fallén, 1823 .....                                | 79.10, 79.11 |
| Drosophilinae .....  | 79.7         |
| <i>Drosophilura</i> Hendel, 1913 .....                       | 79.35        |
| dubia (Sturtevant), 1921 (Drosophila), Clastopteromyia ..... | 79.9         |
| <i>dudai</i> Malloch, 1934, Drosophila .....                 | 79.15        |
| <i>dudai</i> Wheeler, 1954, Paraliodrosophila .....          | 79.32        |
| dunni Townsend & Wheeler, 1955, Drosophila .....             | 79.14        |
| <i>earlei</i> Sturtevant, 1916, Drosophila .....             | 79.28        |
| elegans Duda, 1927, Leucophenga .....                        | 79.3         |
| elegans Wheeler & Takada, 1963, Mycodrosophila .....         | 79.31        |
| elliptica Sturtevant, 1942, Drosophila .....                 | 79.26        |
| emarginata Sturtevant, 1942, Drosophila .....                | 79.26        |
| endobranchia Carson & Wheeler, 1968, Drosophila .....        | 79.14        |
| cohydei Wasserman, 1962, Drosophila .....                    | 79.14        |
| equinoxialis Dobzhansky, 1946, Drosophila .....              | 79.26        |



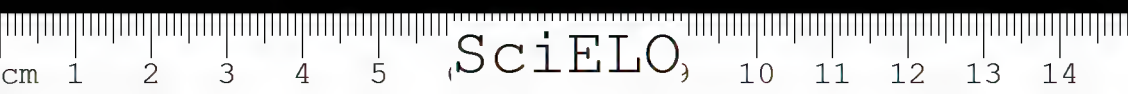
|  |       |
|--|-------|
| eremophila Wasserman, 1962, <i>Drosophila</i> .....                            | 79.14 |
| curyopa (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....      | 79.9  |
| exuberans Wheeler, 1968, <i>Zygothrica</i> .....                               | 79.36 |
| facialba Heed & Wheeler, 1957, <i>Drosophila</i> .....                         | 79.14 |
| fairchildi Pipkin & Heed, 1964, <i>Drosophila</i> .....                        | 79.14 |
| fasciola Williston, 1896, <i>Drosophila</i> .....                              | 79.14 |
| fascioides Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                   | 79.14 |
| fascipennis Duda, 1927, <i>Zygothrica</i> .....                                | 79.36 |
| fenestrata Duda, 1927, <i>Leucophenga</i> .....                                | 79.3  |
| ferruginea Becker, 1919, <i>Drosophila</i> .....                               | 79.29 |
| festiva Burla, 1956, <i>Zygothrica</i> .....                                   | 79.36 |
| flavescens Wheeler, 1957, <i>Laccodrosophila</i> .....                         | 79.38 |
| flaviceps Duda, 1929, <i>Rhinoleucophenga</i> .....                            | 79.5  |
| flavifrons Malloch, 1924, <i>Stegana</i> .....                                 | 79.6  |
| flavimana Malloch, 1924, <i>Stegana</i> .....                                  | 79.6  |
| flavipes Duda, 1927, <i>Laccodrosophila</i> .....                              | 79.38 |
| flavociliata Hendel, 1936, <i>Zygothrica</i> .....                             | 79.35 |
| flavocostata Hendel, 1917, <i>Trachyleucophenga</i> .....                      | 79.7  |
| flavohalterata Duda, 1925, <i>Drosophila</i> .....                             | 79.24 |
| flavolineata (Duda), 1927 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> ..... | 79.9  |
| flavolineata Duda, 1927, <i>Drosophila</i> .....                               | 79.15 |
| flavopilosa Frey, 1918, <i>Drosophila</i> .....                                | 79.15 |
| flavorepleta Patterson & Pavan, 1952, <i>Drosophila</i> .....                  | 79.15 |
| flexa Loew, 1865, <i>Drosophila</i> .....                                      | 79.25 |
| flexipilosa Pipkin, 1964, <i>Drosophila</i> .....                              | 79.16 |
| florae Sturtevant, 1916, <i>Drosophila</i> .....                               | 79.29 |
| floricola Sturtevant, 1942, <i>Drosophila</i> .....                            | 79.25 |
| fluminensis Lima, 1950, <i>Gitona</i> .....                                    | 79.3  |
| formosa Lamb, 1914, <i>Dettopsomyia</i> .....                                  | 79.10 |
| fragilis Wheeler, 1949, <i>Drosophila</i> .....                                | 79.15 |
| frolovae Wheeler, 1949, <i>Drosophila</i> .....                                | 79.26 |
| frontalis (Williston), 1896 ( <i>Drosophila</i> ), <i>Leucophenga</i> .....    | 79.3  |
| fulvalineata Patterson & Wheeler, 1942, <i>Drosophila</i> .....                | 79.15 |
| fulvimacula Patterson & Mainland, 1944, <i>Drosophila</i> .....                | 79.15 |
| fulvimaculoides Wasserman & Wilson, 1957, <i>Drosophila</i> .....              | 79.15 |
| fumipennis Duda, 1925, <i>Drosophila</i> .....                                 | 79.26 |
| fumosa Pavan & Cunha, 1947, <i>Drosophila</i> .....                            | 79.15 |
| fundomaculata Duda, 1925, <i>Drosophila</i> .....                              | 79.15 |
| funebis (Fabricius), 1787 ( <i>Musca</i> ), <i>Drosophila</i> .....            | 79.15 |
| fusca Coquillett, 1900, <i>Drosophila</i> .....                                | 79.29 |
| fuscibasis Malloch, 1924, <i>Stegana</i> .....                                 | 79.6  |
| fuscina Burla, 1956, <i>Zygothrica</i> .....                                   | 79.36 |
| fuscinervis Malloch, 1924, <i>Scaptomyza</i> .....                             | 79.33 |
| fuscipennis Duda, 1927, <i>Drosophila</i> .....                                | 79.15 |
| fuscohalterata Duda, 1925, <i>Drosophila</i> .....                             | 79.24 |
| fuscolineata Duda, 1925, <i>Drosophila</i> .....                               | 79.15 |
| gagai Patterson & Mainland, 1944, <i>Amiota</i> .....                          | 79.2  |
| gasic Brncic, 1957, <i>Drosophila</i> .....                                    | 79.15 |
| gaucha Jaeger & Salzano, 1953, <i>Drosophila</i> .....                         | 79.15 |
| gemma Burla, 1956, <i>Zygothrica</i> .....                                     | 79.36 |
| gentica Wheeler & Takada, 1962, <i>Drosophila</i> .....                        | 79.15 |
| gibberosa Patterson & Mainland, 1943, <i>Drosophila</i> .....                  | 79.15 |



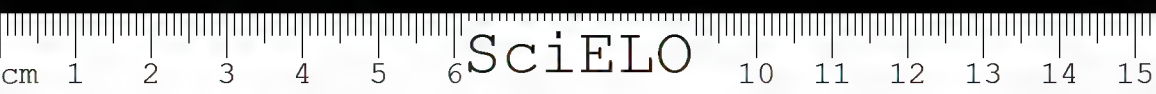
|  |       |
|--|-------|
| <i>gigantea</i> Thomson, 1869, <i>Drosophila</i> .....                               | 79.29 |
| <i>gigas</i> Duda, 1925, <i>Drosophila</i> .....                                     | 79.15 |
| <i>gilva</i> Burla, 1956, <i>Drosophila</i> .....                                    | 79.24 |
| <i>gilva</i> Wheeler & Takada, 1962, <i>Drosophila</i> .....                         | 79.18 |
| <i>Gitona</i> Meigen, 1830 .....   | 79.2  |
| <i>glabrifrons</i> Duda, 1925, <i>Drosophila</i> .....                               | 79.24 |
| <i>gracilipoeyi</i> Burla, 1956, <i>Zygothrica</i> .....                             | 79.36 |
| <i>guaraja</i> King, 1947, <i>Drosophila</i> .....                                   | 79.15 |
| <i>greerae</i> Pipkin & Heed, 1964, <i>Drosophila</i> .....                          | 79.15 |
| <i>grenadensis</i> Heed, 1962, <i>Drosophila</i> .....                               | 79.22 |
| <i>griseicollis</i> Becker, 1919, <i>Drosophila</i> .....                            | 79.29 |
| <i>griseolineata</i> Duda, 1927, <i>Drosophila</i> .....                             | 79.15 |
| <i>guaraja</i> King, 1947, <i>Drosophila</i> .....                                   | 79.16 |
| <i>guaramunu</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                   | 79.16 |
| <i>guarani</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                     | 79.16 |
| <i>guaru</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                       | 79.16 |
| <i>guttipennis</i> (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> ..... | 79.9  |
| <i>hamatofila</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                 | 79.16 |
| <i>hansonii</i> Pipkin, 1964, <i>Drosophila</i> .....                                | 79.16 |
| <i>hansonioides</i> Pipkin, 1966, <i>Drosophila</i> .....                            | 79.16 |
| <i>hasemani</i> Kahl, 1917, <i>Leucophenga</i> .....                                 | 79.3  |
| <i>heedi</i> Wheeler, 1957, <i>Laccodrosophila</i> .....                             | 79.38 |
| <i>heedi</i> Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                         | 79.34 |
| <i>Hemiscaptomyza</i> Hackman, 1959 .....  | 79.33 |
| <i>hennigi</i> Hackman, 1959, <i>Scaptomyza</i> .....                                | 79.33 |
| <i>hexastigma</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....                | 79.16 |
| <i>hirsuta</i> Wheeler, 1949, <i>Scaptomyza</i> .....                                | 79.33 |
| <i>hirta</i> Wheeler, 1959, <i>Zapriothrica</i> .....                                | 79.38 |
| <i>Hirtodrosophila</i> Duda, 1923 .....  | 79.23 |
| <i>hoeckeri</i> Brncic, 1957, <i>Drosophila</i> .....                                | 79.19 |
| <i>horae</i> Williston, 1896, <i>Stegana</i> .....                                   | 79.6  |
| <i>huilliche</i> Brncic, 1957, <i>Drosophila</i> .....                               | 79.16 |
| <i>hyalipennis</i> Duda, 1927, <i>Drosophila</i> .....                               | 79.16 |
| <i>Hyalistata</i> Wheeler, 1960 .....  | 79.5  |
| <i>hydei</i> Sturtevant, 1921, <i>Drosophila</i> .....                               | 79.16 |
| <i>hydeoides</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                  | 79.16 |
| <i>hypandriata</i> Burla, 1956, <i>Zygothrica</i> .....                              | 79.36 |
| <i>icteroscuta</i> Wheeler, 1949, <i>Drosophila</i> .....                            | 79.16 |
| <i>iheringi</i> Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....                     | 79.9  |
| <i>illota</i> Williston, 1896, <i>Drosophila</i> .....                               | 79.29 |
| <i>immigrans</i> Sturtevant, 1921, <i>Drosophila</i> .....                           | 79.16 |
| <i>impudica</i> Duda, 1927, <i>Drosophila</i> .....                                  | 79.29 |
| <i>inca</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                        | 79.16 |
| <i>incompta</i> Wheeler & Takada, 1962, <i>Drosophila</i> .....                      | 79.16 |
| <i>infumata</i> (Duda), 1925 ( <i>Diathoneura</i> ), <i>Cladochaeta</i> .....        | 79.8  |
| <i>innubila</i> Spencer, 1943, <i>Drosophila</i> .....                               | 79.16 |
| <i>insularis</i> Dobzhansky, 1957, <i>Drosophila</i> .....                           | 79.26 |
| <i>intermedia</i> (Duda), 1927 ( <i>Drosophila</i> ), <i>Scaptomyza</i> .....        | 79.33 |
| <i>intermedia</i> (Duda), 1927 ( <i>Protostegana</i> ), <i>Stegana</i> .....         | 79.6  |
| <i>interrupta</i> Malloch, 1924, <i>Stegana</i> .....                                | 79.6  |
| <i>inversa</i> (Walker), 1861 ( <i>Drosophila</i> ), <i>Clastopteromyia</i> .....    | 79.9  |
| <i>itambacuriensis</i> Cunha, 1955, <i>Drosophila</i> .....                          | 79.19 |



|   |       |
|---|-------|
| johnstonae Pipkin & Heed, 1964, <i>Drosophila</i> .....                         | 79.16 |
| jordanensis Frota-Pessoa, 1945, <i>Drosophila</i> .....                         | 79.24 |
| kallima Wheeler, 1957, <i>Drosophila</i> .....                                  | 79.16 |
| kerteszi Duda, 1925, <i>Neorhinoleucophenga</i> .....                           | 79.31 |
| kertesziina Duda, 1925, <i>Drosophila</i> .....                                 | 79.26 |
| kikkawai Burla, 1954, <i>Drosophila</i> .....                                   | 79.27 |
| kittensis Heed, 1962, <i>Drosophila</i> .....                                   | 79.12 |
| krugi Pavan & Breuer, 1954, <i>Drosophila</i> .....                             | 79.16 |
| kuscheli Brncic, 1957, <i>Drosophila</i> .....                                  | 79.24 |
| Laccodrosophila Duda, 1927 .....  | 79.38 |
| laevifrons Duda, 1927, <i>Zygothrica</i> .....                                  | 79.36 |
| laevilimbata Duda, 1927, <i>Chymomyza</i> .....                                 | 79.7  |
| laeviventris Duda, 1927, <i>Zygothrica</i> .....                                | 79.36 |
| lanceolata Burla, 1956, <i>Zygothrica</i> .....                                 | 79.36 |
| latebuccata Duda, 1927, <i>Drosophila</i> .....                                 | 79.29 |
| latecarinata Duda, 1927, <i>Drosophila</i> .....                                | 79.29 |
| laticeps Burla, 1954, <i>Zygothrica</i> .....                                   | 79.36 |
| laticeps (Duda), 1925 ( <i>Diaethoneura</i> ), <i>Clastopteromyia</i> .....     | 79.9  |
| latifasciaeformis Duda, 1940, <i>Drosophila</i> .....                           | 79.25 |
| lauta Wheeler & Takada, 1962, <i>Drosophila</i> .....                           | 79.16 |
| leoni Pipkin, 1964, <i>Drosophila</i> .....                                     | 79.29 |
| leonis Patterson & Wheeler, 1942, <i>Drosophila</i> .....                       | 79.16 |
| leticiae Pipkin, 1967, <i>Drosophila</i> .....                                  | 79.17 |
| Leucophenga Mik, 1886 .....   | 79.3  |
| leucopoda (Wheeler), 1949 ( <i>Chymomyza</i> ), <i>Neotanygastrella</i> .....   | 79.32 |
| leukorrhyna Pipkin, 1964, <i>Drosophila</i> .....                               | 79.17 |
| levigata Burla, 1956, <i>Drosophila</i> .....                                   | 79.24 |
| limbata Williston, 1896, <i>Drosophila</i> .....                                | 79.27 |
| limbinervis Duda, 1925, <i>Drosophila</i> .....                                 | 79.17 |
| limbiventris Duda, 1925, <i>Drosophila</i> .....                                | 79.17 |
| limensis Pavan & Patterson, 1947, <i>Drosophila</i> .....                       | 79.17 |
| limpiensis Mainland, 1941, <i>Drosophila</i> .....                              | 79.17 |
| lindae Wheeler, 1968, <i>Drosophila</i> .....                                   | 79.17 |
| linearepleta Patterson & Wheeler, 1942, <i>Drosophila</i> .....                 | 79.17 |
| lineatifrons Duda, 1925, <i>Pseudocacoxenus</i> .....                           | 79.38 |
| longala Patterson & Wheeler, 1942, <i>Drosophila</i> .....                      | 79.24 |
| longicornis Patterson & Wheeler, 1942, <i>Drosophila</i> .....                  | 79.17 |
| longipennis Malloch, 1926, <i>Clastopteromyia</i> .....                         | 79.9  |
| longipennis Malloch, 1926, <i>Clastopteromyia</i> .....                         | 79.9  |
| lopesi Malogolowkin, 1946, <i>Rhinoleucophenga</i> .....                        | 79.5  |
| lugubripennis Duda, 1927, <i>Drosophila</i> .....                               | 79.17 |
| lualtans Magalhães, 1962, <i>Drosophila</i> .....                               | 79.27 |
| luteipes (Sturtevant), 1921 ( <i>Drosophila</i> ), <i>Clastopteromyia</i> ..... | 79.10 |
| lutzii Sturtevant, 1916, <i>Drosophila</i> .....                                | 79.25 |
| macropolia Patterson & Mainland, 1944, <i>Drosophila</i> .....                  | 79.17 |
| Macroptera Duda, 1927 .....   | 79.10 |
| macroptera Patterson & Wheeler, 1942, <i>Drosophila</i> .....                   | 79.17 |
| macroptera Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                      | 79.34 |
| macrospina Stalker & Spencer, 1939, <i>Drosophila</i> .....                     | 79.17 |
| maculifera Becker, 1919, <i>Scaptomyza</i> .....                                | 79.33 |
| maculifrons Duda, 1927, <i>Drosophila</i> .....                                 | 79.29 |



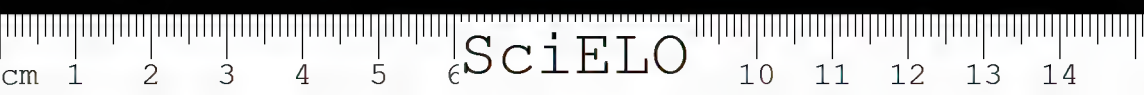
|   |       |
|---|-------|
| <i>maculipennis</i> Hendel, 1936, <i>Chymomyza</i> .....                                | 79.7  |
| <i>maculipennis</i> Malloch, 1926, <i>Clastopteromyia</i> .....                         | 79.9  |
| <i>maculipennis</i> Duda, 1927, <i>Drosophila</i> .....                                 | 79.30 |
| <i>maculosa</i> (Coquillett), 1895 ( <i>Drosophila</i> ), <i>Leucophenga</i> .....      | 79.3  |
| <i>magalhaesi</i> Mourão & Bicudo, 1967, <i>Drosophila</i> .....                        | 79.27 |
| <i>magnabadia</i> Patterson & Mainland, 1943, <i>Drosophila</i> .....                   | 79.17 |
| <i>magnarcus</i> Frota-Pessoa, 1951, <i>Drosophila</i> .....                            | 79.24 |
| <i>magnifica</i> Hendel, 1913, <i>Stegana</i> .....                                     | 79.6  |
| <i>magnipennis</i> (Duda), 1927 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....    | 79.10 |
| <i>mangabeirai</i> Malogolowkin, 1951, <i>Drosophila</i> .....                          | 79.27 |
| <i>maracaya</i> Wheeler, 1957, <i>Drosophila</i> .....                                  | 79.17 |
| <i>martensis</i> Wasserman & Wilson, 1957, <i>Drosophila</i> .....                      | 79.17 |
| <i>matogrossensis</i> Malogolowkin, 1946, <i>Rhinoleucophenga</i> .....                 | 79.5  |
| Mayagueza Wheeler, 1960 .....   | 79.4  |
| <i>mcclintockae</i> Pipkin, 1964, <i>Drosophila</i> .....                               | 79.17 |
| <i>mediocris</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                            | 79.17 |
| <i>mediodelta</i> Heed & Wheeler, 1957, <i>Drosophila</i> .....                         | 79.17 |
| <i>mediodiffusa</i> Heed & Wheeler, 1957, <i>Drosophila</i> .....                       | 79.17 |
| <i>medioimpressa</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                        | 79.17 |
| <i>medionotata</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                          | 79.17 |
| <i>medioobscurata</i> Duda, 1925, <i>Drosophila</i> .....                               | 79.17 |
| <i>medioparva</i> Heed & Wheeler, 1957, <i>Drosophila</i> .....                         | 79.18 |
| <i>mediopicta</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                           | 79.18 |
| <i>mediopictoides</i> Heed & Wheeler, 1957, <i>Drosophila</i> .....                     | 79.18 |
| <i>mediopunctata</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                  | 79.18 |
| <i>mediosignata</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                   | 79.18 |
| <i>mediostriata</i> Duda, 1925, <i>Drosophila</i> .....                                 | 79.18 |
| <i>mediovittata</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                         | 79.18 |
| <i>megalagitans</i> Wheeler & Magalhães, 1962, <i>Drosophila</i> .....                  | 79.27 |
| <i>melancholica</i> (Duda), 1927 ( <i>Drosophila</i> ), <i>Scaptomyza</i> .....         | 79.33 |
| <i>melanica</i> Sturtevant, 1916, <i>Drosophila</i> .....                               | 79.18 |
| <i>melanogaster</i> Meigen, 1830, <i>Drosophila</i> .....                               | 79.27 |
| <i>melanopalpa</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                   | 79.18 |
| <i>melanoptera</i> Duda, 1927, <i>Drosophila</i> .....                                  | 79.29 |
| <i>melina</i> Wheeler, 1962, <i>Drosophila</i> .....                                    | 79.18 |
| <i>mellea</i> Becker, 1919, <i>Drosophila</i> .....                                     | 79.30 |
| <i>mendeli</i> Mourão, Gallo & Bicudo, 1965, <i>Drosophila</i> .....                    | 79.24 |
| <i>mercatorum</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                    | 79.18 |
| <i>meridiana</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                     | 79.18 |
| <i>meridionalis</i> Wasserman, 1962, <i>Drosophila</i> .....                            | 79.18 |
| <i>mesopecta</i> Wheeler, 1963, <i>Chymomyza</i> .....                                  | 79.7  |
| <i>mesophragmatica</i> Duda, 1927, <i>Drosophila</i> .....                              | 79.18 |
| <i>mesopoeiy</i> Burla, 1956, <i>Zygothrica</i> .....                                   | 79.36 |
| <i>Mesoscaptomyza</i> Hackman, 1959 .....   | 79.33 |
| <i>mesostigma</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                           | 79.18 |
| <i>metallica</i> (Sturtevant), 1921 ( <i>Drosophila</i> ), <i>Clastopteromyia</i> ..... | 79.9  |
| <i>metzii</i> Sturtevant, 1921, <i>Drosophila</i> .....                                 | 79.18 |
| <i>mexicana</i> Macquart, 1843, <i>Drosophila</i> .....                                 | 79.30 |
| <i>mexicana</i> Wheeler, 1949, <i>Chymomyza</i> .....                                   | 79.7  |
| <i>mexicana</i> (Wheeler), 1949 ( <i>Paramycodrosophila</i> ), <i>Drosophila</i> ....   | 79.24 |
| <i>mexicoa</i> Wheeler, 1954, <i>Drosophila</i> .....                                   | 79.24 |
| <i>Microdrosophila</i> Malloch, 1921 .....  | 79.31 |
| <i>micromelanica</i> Patterson, 1941, <i>Drosophila</i> .....                           | 79.18 |



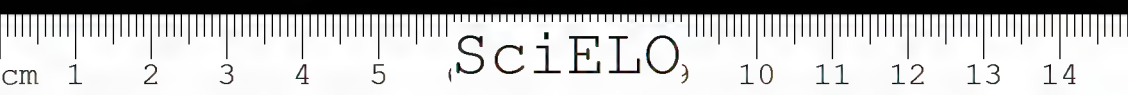
|  |       |
|--|-------|
| microstoma Duda, 1925, <i>Zygothrica</i> .....                                   | 79.36 |
| mihalyii Wheeler, 1963, <i>Paraliodrosophila</i> .....                           | 79.32 |
| milleri Magalhães, 1962, <i>Drosophila</i> .....                                 | 79.27 |
| minor (Malloch), 1921 ( <i>Phortica</i> ), <i>Amiota</i> .....                   | 79.2  |
| minor Duda, 1927, <i>Stegana</i> .....   | 79.6  |
| minuta (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....         | 79.9  |
| mirassolensis Mourão & Gallo, 1967, <i>Drosophila</i> .....                      | 79.18 |
| mirim Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                          | 79.25 |
| mojavensis Patterson & Crow, 1940, <i>Drosophila</i> .....                       | 79.18 |
| moju Pavan, 1950, <i>Drosophila</i> .....  | 79.19 |
| mojuoides Wasserman, 1962, <i>Drosophila</i> .....                               | 79.19 |
| montei Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....                          | 79.9  |
| morena Frota-Pessoa, 1954, <i>Drosophila</i> .....                               | 79.19 |
| morgani Mourão, Gallo & Bicudo, 1967, <i>Drosophila</i> .....                    | 79.24 |
| mourensis Cunha, 1955, <i>Drosophila</i> .....                                   | 79.19 |
| mulleri Sturtevant, 1921, <i>Drosophila</i> .....                                | 79.19 |
| multispinosa Malloch, 1934, <i>Scaptomyza</i> .....                              | 79.33 |
| munda Spencer, 1942, <i>Drosophila</i> .....                                     | 79.19 |
| Mycodrosophila Oldenberg, 1914 .....   | 79.31 |
| nana (Williston), 1896 ( <i>Drosophila</i> ), <i>Clastopteromyia</i> .....       | 79.9  |
| nannoptera Wheeler, 1949, <i>Drosophila</i> .....                                | 79.19 |
| narinosa Frota-Pessoa, 1945, <i>Drosophila</i> .....                             | 79.24 |
| nasalis Duda, 1925, <i>Drosophila</i> .....                                      | 79.24 |
| nebulosa Coquillett, 1900, <i>Cladochaeta</i> .....                              | 79.8  |
| nebulosa Sturtevant, 1916, <i>Drosophila</i> .....                               | 79.27 |
| neochagitans Wheeler & Magalhães, 1962, <i>Drosophila</i> .....                  | 79.27 |
| neoardrichi Burla, 1956, <i>Zygothrica</i> .....                                 | 79.36 |
| neocardina Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                       | 79.35 |
| neocardini Streisinger, 1946, <i>Drosophila</i> .....                            | 79.19 |
| neochracea Wheeler, 1959, <i>Drosophila</i> .....                                | 79.19 |
| neocordata Magalhães, 1956, <i>Drosophila</i> .....                              | 79.27 |
| neocelliptica Pavan & Magalhães, 1950, <i>Drosophila</i> .....                   | 79.27 |
| neoguaramunu Frydenberg, 1956, <i>Drosophila</i> .....                           | 79.19 |
| neohydei Wasserman, 1962, <i>Drosophila</i> .....                                | 79.19 |
| Neoleucophenga Oldenberg, 1915 .....   | 79.4  |
| neomorpha Heed & Wheeler, 1957, <i>Drosophila</i> .....                          | 79.19 |
| neoprojectans Wheeler & Takada, 1963, <i>Mycodrosophila</i> .....                | 79.31 |
| neorepleta Patterson & Wheeler, 1942, <i>Drosophila</i> .....                    | 79.19 |
| Neorhinoleucophenga Duda, 1925 .....   | 79.31 |
| neosaltans Pavan & Magalhães, 1950, <i>Drosophila</i> .....                      | 79.27 |
| Neotanygastrella Duda, 1925 .....  | 79.31 |
| neovariva Wheeler, 1960, <i>Leucophenga</i> .....                                | 79.4  |
| nephelea Wheeler, 1968, <i>Paramycodrosophila</i> .....                          | 79.32 |
| nesiota Wheeler & Takada, 1962, <i>Drosophila</i> .....                          | 79.19 |
| nigra (Duda), 1925 ( <i>Protostegana</i> ), <i>Stegana</i> .....                 | 79.7  |
| nigrasplendens Pipkin, 1926, <i>Drosophila</i> .....                             | 79.19 |
| nigrescens (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....     | 79.9  |
| nigrescens Malogolowkin, 1946, <i>Rhinoleucophenga</i> .....                     | 79.5  |
| nigricincta Frota-Pessoa, 1954, <i>Drosophila</i> .....                          | 79.19 |
| nigricincta (Malloch), 1926 ( <i>Drosophila</i> ), <i>Neotanygastrella</i> ..... | 79.32 |
| nigricosta Wheeler & Takada, 1961, <i>Scaptomyza</i> .....                       | 79.33 |
| nigricurria Patterson & Mainland, 1943, <i>Drosophila</i> .....                  | 79.19 |
| nigrifemur Duda, 1927, <i>Drosophila</i> .....                                   | 79.30 |



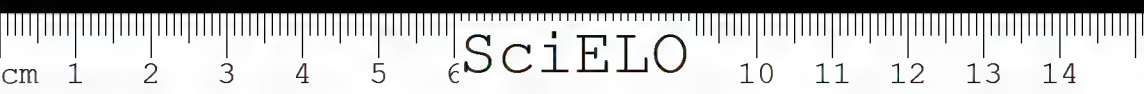
|  |       |
|--|-------|
| nigrifrons (Duda), 1925 (Diathoneura), Clastopteromyia ..... | 79.9  |
| nigrimana Malloch, 1924, Stegana .....                       | 79.6  |
| nigripalpis Malloch, 1924, Scaptomyza .....                  | 79.33 |
| nigrita Malloch, 1924, Stegana .....                         | 79.6  |
| nigrodunni Heed & Wheeler, 1957, Drosophila .....            | 79.19 |
| nigrohalterata Duda, 1925, Drosophila .....                  | 79.24 |
| nigrohylei Patterson & Wheeler, 1942, Drosophila .....       | 79.19 |
| nigromarginata Duda, 1925, Stegana .....                     | 79.6  |
| nigropleura Wheeler & Takada, 1963, Mycodrosophila .....     | 79.31 |
| nigrosaltans Magalhães, 1962, Drosophila .....               | 79.27 |
| nigrospiracula Patterson & Wheeler, 1942, Drosophila .....   | 79.19 |
| nitidifrons Duda, 1927, Zygotherica .....                    | 79.36 |
| noei Brncic, 1955, Scaptomyza .....                          | 79.35 |
| norma Curran, 1934, Stegana .....                            | 79.6  |
| novemariata Dobzhansky & Pavan, 1943, Drosophila .....       | 79.19 |
| nubeculosa (Duda), 1925 (Diathoneura), Clastopteromyia ..... | 79.9  |
| nubiluna Wheeler, 1949, Drosophila .....                     | 79.19 |
| nudiseta Wheeler, 1959, Zapriothrica .....                   | 79.38 |
|  |       |
| obesa (Loew), 1872 (Drosophila), Rhinoleucophenga .....      | 79.5  |
| obscuricolor Duda, 1927, Drosophila .....                    | 79.30 |
| obscuripennis (Loew), 1865 (Drosophila), Leucophenga .....   | 79.4  |
| occidentalis Spencer, 1942, Drosophila .....                 | 79.20 |
| ochracea Duda, 1927, Drosophila .....                        | 79.19 |
| ochracella Hendel, 1936, Drosophila .....                    | 79.24 |
| onca Dobzhansky & Pavan, 1943, Drosophila .....              | 79.20 |
| onychophora Duda, 1927, Drosophila .....                     | 79.30 |
| opaca (Williston), 1896 (Drosophila), Clastopteromyia .....  | 79.9  |
| orbitalis (Sturtevant), 1916 (Drosophila), Zygotherica ..... | 79.36 |
| orkui Brncic & Koref Santibañez, 1957, Drosophila .....      | 79.20 |
| ornata Wheeler, 1957, Neotanygastrella .....                 | 79.32 |
| ornatifrons Duda, 1927, Drosophila .....                     | 79.30 |
| ornatipennis Williston, 1896, Drosophila .....               | 79.20 |
| ornativentris Kahl, 1917, Leucophenga .....                  | 79.4  |
| osornina Brncic, 1957, Drosophila .....                      | 79.20 |
| othoni Pipkin, 1964, Drosophila .....                        | 79.20 |
|  |       |
| pachea Patterson & Wheeler, 1942, Drosophila .....           | 79.20 |
| pachuca Wasserman, 1962, Drosophila .....                    | 79.20 |
| paglioli Cordeiro, 1963, Drosophila .....                    | 79.30 |
| pallida Hendel, 1917, Rhinoleucophenga .....                 | 79.5  |
| pallida Wheeler, 1960, Pseudiasata .....                     | 79.5  |
| pallida Williston, 1896, Drosophila .....                    | 79.28 |
| pallida (Zetterstedt), 1847 (Drosophila), Scaptomyza .....   | 79.34 |
| pallidipennis Dobzhansky & Pavan, 1943, Drosophila .....     | 79.20 |
| pallidipoeyi Burla, 1956, Zygotherica .....                  | 79.36 |
| palpipoeyi Burla, 1956, Zygotherica .....                    | 79.36 |
| paludicola Patterson & Mainland, 1944, Leucophenga .....     | 79.4  |
| panamensis Malloch, 1926, Drosophila .....                   | 79.20 |
| para Pavan & Burla, 1950, Drosophila .....                   | 79.20 |
| parabocainensis Carson, 1954, Drosophila .....               | 79.27 |
| parabocainoides Wheeler & Magalhães, 1962, Drosophila .....  | 79.27 |
| paracanalinea Wheeler, 1957, Drosophila .....                | 79.20 |
| parachrogaster Patterson & Mainland, 1943, Drosophila .....  | 79.20 |
| paradoxa (Lamb), 1918 (Drosophila), Clastopteromyia .....    | 79.9  |



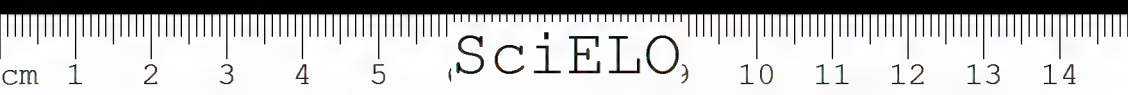
|   |       |
|---|-------|
| paraguayensis Duda, 1927, <i>Drosophila</i> .....                               | 79.20 |
| paraguttata Thompson, 1957, <i>Drosophila</i> .....                             | 79.20 |
| paraldrichi Burla, 1956, <i>Zygothrica</i> .....                                | 79.36 |
| <i>Paraleucophenga</i> Oldenberg, 1914 .....                                    | 79.4  |
| paralevigata Burla, 1956, <i>Drosophila</i> .....                               | 79.24 |
| Paraliodrosophila Duda, 1925 .....  | 79.32 |
| paramediotriata Townsend & Wheeler, 1955, <i>Drosophila</i> .....               | 79.20 |
| Paramycodrosophila Duda, 1924 .....   | 79.32 |
| paranaensis Dreyfus & Barros, 1948, <i>Drosophila</i> .....                     | 79.20 |
| parandina Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                       | 79.35 |
| <i>parapicata</i> Hackman, 1959, <i>Scaptomyza</i> .....                        | 79.33 |
| parapoeyi Burla, 1956, <i>Zygothrica</i> .....                                  | 79.36 |
| paraptillialis Burla, 1956, <i>Zygothrica</i> .....                             | 79.36 |
| pararepleta Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                   | 79.18 |
| parasaltans Magalhães, 1956, <i>Drosophila</i> .....                            | 79.27 |
| Parascaptomyza Duda, 1924 .....   | 79.34 |
| paravittata Wheeler, 1952, <i>Scaptomyza</i> .....                              | 79.33 |
| parilis Burla, 1956, <i>Zygothrica</i> .....                                    | 79.36 |
| parthenogenetica Stalker, 1953, <i>Drosophila</i> .....                         | 79.20 |
| parvipoeiyi Burla, 1956, <i>Zygothrica</i> .....                                | 79.37 |
| <i>paulista</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....               | 79.28 |
| paulistorum Dobzhansky & Pavan, 1949, <i>Drosophila</i> .....                   | 79.27 |
| pavani Brncic, 1957, <i>Drosophila</i> .....                                    | 79.20 |
| pavlovskiana Kastritsis & Dobzhansky, 1967, <i>Drosophila</i> .....             | 79.27 |
| pectinifemur Duda, 1927, <i>Chymomyza</i> .....                                 | 79.7  |
| pegasa Wasserman, 1962, <i>Drosophila</i> .....                                 | 79.20 |
| pellewae Pipkin & Heed, 1964, <i>Drosophila</i> .....                           | 79.21 |
| peninsularis Patterson & Wheeler, 1942, <i>Drosophila</i> .....                 | 79.21 |
| personata Malogolowkin, 1946, <i>Rhinoleucophenga</i> .....                     | 79.5  |
| personata Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                       | 79.34 |
| peruensis Wheeler, 1959, <i>Drosophila</i> .....                                | 79.30 |
| peruviana (Duda), 1927 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....     | 79.9  |
| peruviana Duda, 1927, <i>Drosophila</i> .....                                   | 79.21 |
| Phloridosa Sturtevant, 1942 .....   | 79.25 |
| <i>Pholadoris</i> Sturtevant, 1942 .....  | 79.25 |
| Phortica Schiner, 1862 .....  | 79.2  |
| picifemorata Hackman, 1959, <i>Scaptomyza</i> .....                             | 79.34 |
| picta (Coquillett), 1904 ( <i>Sinophthalmus</i> ), <i>Amiota</i> .....          | 79.2  |
| pictifrons Duda, 1927, <i>Drosophila</i> .....                                  | 79.30 |
| pictilis Wasserman, 1962, <i>Drosophila</i> .....                               | 79.21 |
| pictiventris Duda, 1925, <i>Drosophila</i> .....                                | 79.5  |
| pictiventris Wheeler, 1960, <i>Pseudiasata</i> .....                            | 79.25 |
| pictura Wasserman, 1962, <i>Drosophila</i> .....                                | 79.21 |
| <i>piliifacies</i> Malloch, 1926, <i>Drosophila</i> .....                       | 79.28 |
| pilifrons Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....                      | 79.10 |
| pilipes Hendel, 1936, <i>Zygothrica</i> .....                                   | 79.37 |
| planifacies Malloch, 1924, <i>Stegana</i> .....                                 | 79.6  |
| platitarsus Frota-Pessoa, 1954, <i>Drosophila</i> .....                         | 79.21 |
| platypezina (Duda), 1927 ( <i>Protostegana</i> ), <i>Stegana</i> .....          | 79.7  |
| pleuralis Williston, 1896, <i>Drosophila</i> .....                              | 79.24 |
| pleurolineata (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> ..... | 79.10 |
| pleurolineata Wheeler & Takada, 1967, <i>Scaptomyza</i> .....                   | 79.34 |
| pleurostrigata Burla, 1956, <i>Zygothrica</i> .....                             | 79.37 |
| plumata (Duda), 1927 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....       | 79.10 |



|   |       |
|---|-------|
| <i>poecila</i> Burla & Pavan, 1953, <i>Drosophila</i> .....                             | 79.22 |
| <i>poeciloptera</i> (Duda), 1925 (Paramycodrosophila), <i>Drosophila</i> ....           | 79.22 |
| <i>poeyi</i> (Sturtevant), 1921 ( <i>Drosophila</i> ), <i>Zygothrica</i> .....          | 79.37 |
| <i>pollinospadix</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....                | 79.21 |
| <i>polychaeta</i> Wheeler, 1968, <i>Amiota</i> .....                                    | 79.2  |
| <i>polychaeta</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                    | 79.21 |
| <i>polymorpha</i> Dobzhansky & Pavan, 1943, <i>Drosophila</i> .....                     | 79.21 |
| <i>ponderosa</i> Patterson & Mainland, 1943, <i>Drosophila</i> .....                    | 79.21 |
| <i>procardinoides</i> Frydenberg, 1956, <i>Drosophila</i> .....                         | 79.21 |
| <i>procnemis</i> (Williston), 1896 ( <i>Drosophila</i> ), <i>Chymomyza</i> .....        | 79.8  |
| <i>prodispar</i> Duda, 1927, <i>Zygothrica</i> .....                                    | 79.38 |
| <i>prognatha</i> Sturtevant, 1916, <i>Drosophila</i> .....                              | 79.24 |
| <i>projectans</i> (Sturtevant), 1916 ( <i>Drosophila</i> ), <i>Mycodrosophila</i> ..... | 79.31 |
| <i>promeridiana</i> Wasserman, 1962, <i>Drosophila</i> .....                            | 79.21 |
| <i>propachuca</i> Wasserman, 1962, <i>Drosophila</i> .....                              | 79.21 |
| <i>prorepleta</i> Duda, 1925, <i>Drosophila</i> .....                                   | 79.21 |
| <i>prosaltans</i> Duda, 1927, <i>Drosophila</i> .....                                   | 79.27 |
| <i>prosimilis</i> Duda, 1927, <i>Drosophila</i> .....                                   | 79.21 |
| <i>pruinifacies</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                         | 79.21 |
| <i>Pseudiasata</i> Coquillett, 1908 .....   | 79.4  |
| <i>pseudobocainensis</i> Wheeler & Magalhães, 1962, <i>Drosophila</i> .....             | 79.27 |
| <i>Pseudocacoxenus</i> Duda, 1925 .....   | 79.38 |
| <i>pseudococcivora</i> Sabrosky, 1951, <i>Pseudiasata</i> .....                         | 79.5  |
| <i>pseudoobscura</i> Frolova, 1929, <i>Drosophila</i> .....                             | 79.28 |
| <i>pseudoprojectans</i> Wheeler & Takada, 1963, <i>Mycodrosophila</i> .....             | 79.31 |
| <i>pseudosaltans</i> Magalhães, 1956, <i>Drosophila</i> .....                           | 79.28 |
| <i>pseudovittata</i> Brncic, 1955, <i>Scaptomyza</i> .....                              | 79.34 |
| <i>ptilialis</i> Burla, 1956, <i>Zygothrica</i> .....                                   | 79.37 |
| <i>pulchella</i> Sturtevant, 1916, <i>Drosophila</i> .....                              | 79.28 |
| <i>pulcherrima</i> Patterson & Mainland, 1944, <i>Leucophenga</i> .....                 | 79.4  |
| <i>pulchra</i> Schiner, 1868, <i>Drosophila</i> .....                                   | 79.30 |
| <i>pulla</i> Pavan & Cunha, 1947, <i>Drosophila</i> .....                               | 79.15 |
| <i>pulvera</i> Duda, 1927, <i>Drosophila</i> .....                                      | 79.30 |
| <i>punctipennis</i> (Duda), 1927 (Paramycodrosophila), <i>Drosophila</i> ....           | 79.22 |
| <i>punctulata</i> Loew, 1862, <i>Drosophila</i> .....                                   | 79.21 |
| <i>punctulata</i> Duda, 1929, <i>Rhinoleucophenga</i> .....                             | 79.5  |
| <i>quadrivittata</i> (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....  | 79.10 |
| <i>quadrum</i> (Wiedemann), 1830 ( <i>Trypeta</i> ), <i>Drosophila</i> .....            | 79.21 |
| <i>quinquelineata</i> Duda, 1925, <i>Neorhinoleucophenga</i> .....                      | 79.31 |
| <i>racemova</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....                     | 79.21 |
| <i>ramsdeni</i> Sturtevant, 1916, <i>Drosophila</i> .....                               | 79.21 |
| <i>ramulosa</i> Burla, 1956, <i>Drosophila</i> .....                                    | 79.24 |
| <i>rectangularis</i> Sturtevant, 1942, <i>Drosophila</i> .....                          | 79.28 |
| <i>repleta</i> Wollaston, 1858, <i>Drosophila</i> .....                                 | 79.21 |
| <i>reticulata</i> Wheeler, 1957, <i>Drosophila</i> .....                                | 79.30 |
| <i>Rhinoleucophenga</i> Hendel, 1917 .....  | 79.5  |
| <i>rioensis</i> Patterson, 1943, <i>Drosophila</i> .....                                | 79.18 |
| <i>ritae</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                         | 79.21 |
| <i>roehrae</i> Pipkin & Heed, 1964, <i>Drosophila</i> .....                             | 79.22 |
| <i>rostrata</i> Duda, 1925, <i>Drosophila</i> .....                                     | 79.22 |
| <i>rubrifrons</i> Patterson & Wheeler, 1942, <i>Drosophila</i> .....                    | 79.22 |

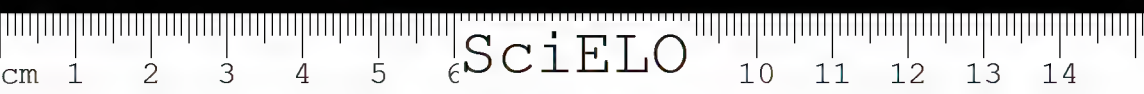


|   |              |
|---|--------------|
| salebrosa Wheeler, 1968, Zapriothrica .....                     | 79.38        |
| saltans Sturtevant, 1916, Drosophila .....                      | 79.28        |
| salvadorae Wheeler & Takada, 1967, Scaptomyza .....             | 79.34        |
| samurai Wheeler & Takada, 1967, Scaptomyza .....                | 79.34        |
| Scaptodrosophila Duda, 1923 .....                               | 79.25        |
| Scaptomyza Hardy, 1849 .....                                    | 79.32, 79.34 |
| schildi Malloch, 1924, Drosophila .....                         | 79.22        |
| schildi Malloch, 1924, Stegana .....                            | 79.7         |
| schnuseana Duda, 1927, Leucophenga .....                        | 79.3         |
| scoptera Duda, 1927, Drosophila .....                           | 79.30        |
| scutellaris Wheeler, 1952, Zygothrica .....                     | 79.37        |
| sectipoeyi Burla, 1956, Zygothrica .....                        | 79.37        |
| sellata Sturtevant, 1942, Drosophila .....                      | 79.28        |
| semialba Duda, 1925, Drosophila .....                           | 79.30        |
| semistriata Wheeler, 1952, Zygothrica .....                     | 79.37        |
| septentrionalis Magalhães & Buck, 1962, Drosophila .....        | 79.28        |
| serenensis Brncic, 1957, Drosophila .....                       | 79.22        |
| setapex Patterson & Mainland, 1944, Drosophila .....            | 79.22        |
| setosa Dobzhansky & Pavan, 1943, Drosophila .....               | 79.16        |
| setosa Wheeler & Takada, 1967, Scaptomyza .....                 | 79.34        |
| setula Heed & Wheeler, 1957, Drosophila .....                   | 79.22        |
| similis Williston, 1896, Drosophila .....                       | 79.22        |
| simulans Sturtevant, 1919, Drosophila .....                     | 79.28        |
| Sinophthalmus Coquillett, 1904 .....                            | 79.2         |
| Siphlodora Patterson & Mainland, 1944 .....                     | 79.25        |
| Sophophora Sturtevant, 1939 .....                               | 79.25        |
| Sordophila Wheeler, 1949 .....                                  | 79.29        |
| soror Schiner, 1868, Drosophila .....                           | 79.30        |
| sororia Williston, 1896, Drosophila .....                       | 79.30        |
| spadicifrons Patterson & Mainland, 1944, Drosophila .....       | 79.22        |
| spenceri Patterson, 1943, Drosophila .....                      | 79.22        |
| sphaerocera Thomson, 1869, Drosophila .....                     | 79.30        |
| spiculirostris Burla, 1956, Zygothrica .....                    | 79.37        |
| spinatermina Heed & Wheeler, 1957, Drosophila .....             | 79.22        |
| spinicauda Malloch, 1926, Drosophila .....                      | 79.24        |
| spinipalpis Séguy, 1934, Scatomyza .....                        | 79.34        |
| slendinda (Williston), 1890 (Drosophila), Clastopteromyia ..... | 79.10        |
| Stegana Meigen, 1830 .....                                      | 79.5         |
| Steganinae .....  | 79.2         |
| steganoptera Malloch, 1926, Amiota .....                        | 79.2         |
| sternalis Wheeler, 1959, Zapriothrica .....                     | 79.39        |
| sticta Wheeler, 1957, Drosophila .....                          | 79.22        |
| stigma Hendel, 1917, Rhinoleucophenga .....                     | 79.5         |
| striaticeps Wheeler & Takada, 1967, Scaptomyza .....            | 79.34        |
| strigiventris Duda, 1927, Drosophila .....                      | 79.30        |
| strigocula Burla, 1956, Zygothrica .....                        | 79.37        |
| sturtevanti Duda, 1927, Drosophila .....                        | 79.29        |
| subandina Wheeler & Takada, 1967, Scaptomyza .....              | 79.35        |
| subbadia Patterson & Mainland, 1943, Drosophila .....           | 79.22        |
| subcandens Burla, 1956, Zygothrica .....                        | 79.37        |
| subflavohalterata Burla, 1956, Drosophila .....                 | 79.25        |
| subgilva Burla, 1956, Drosophila .....                          | 79.25        |
| subinfumata Duda, 1925, Drosophila .....                        | 79.28        |
| submacroptera Patterson & Mainland, 1943, Drosophila .....      | 79.22        |

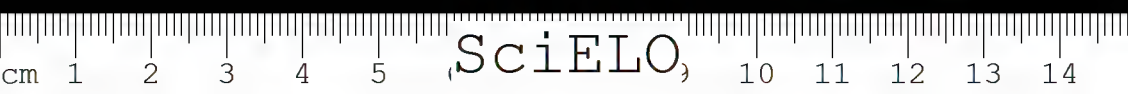


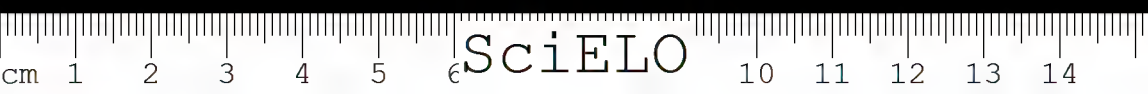


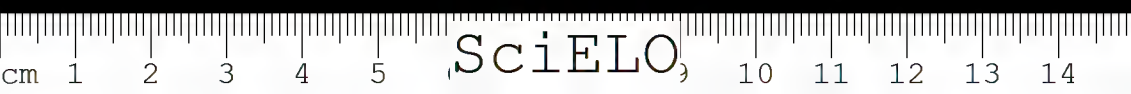
|   |       |
|---|-------|
| <i>suboccidentalis</i> Spencer, 1942, <i>Drosophila</i> .....                           | 79.22 |
| <i>subradiata</i> Duda, 1929, <i>Rhinoleucophenga</i> .....                             | 79.5  |
| <i>subsaltans</i> Magalhães, 1956, <i>Drosophila</i> .....                              | 79.28 |
| <i>subsigmoides</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....                 | 79.25 |
| <i>subviridis</i> Patterson & Mainland, 1943, <i>Drosophila</i> .....                   | 79.22 |
| <i>subvittata</i> Hackman, 1959, <i>Scaptomyza</i> .....                                | 79.34 |
| <i>sucheae</i> Pipkin & Heed, 1964, <i>Drosophila</i> .....                             | 79.22 |
| <i>sucinea</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....                      | 79.28 |
| <i>superba</i> (Sturtevant), 1916 ( <i>Drosophila</i> ), <i>Clastopteromyia</i> .....   | 79.10 |
| <i>suturalis</i> Wheeler, 1957, <i>Drosophila</i> .....                                 | 79.30 |
| <i>taeniatipennis</i> (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> ....  | 79.10 |
| <i>takadai</i> Wheeler, 1968, <i>Laccodrosophila</i> .....                              | 79.38 |
| <i>talamancana</i> Wheeler, 1968, <i>Drosophila</i> .....                               | 79.22 |
| <i>Tanyglossa</i> Duda, 1925 .....  | 79.35 |
| <i>tanyptera</i> (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....      | 79.10 |
| <i>tarsalis</i> Walker, 1852, <i>Drosophila</i> .....                                   | 79.30 |
| <i>tarsalis</i> Williston, 1896, <i>Stegana</i> .....                                   | 79.7  |
| <i>tarsata</i> Schiner, 1868, <i>Drosophila</i> .....                                   | 79.30 |
| <i>tempifera</i> Malloch, 1924, <i>Stegana</i> .....                                    | 79.7  |
| <i>tendata</i> Wheeler, 1959, <i>Drosophila</i> .....                                   | 79.15 |
| <i>tenebrosa</i> Spencer, 1943, <i>Drosophila</i> .....                                 | 79.22 |
| <i>tenuirostris</i> Duda, 1925, <i>Zygothrica</i> .....                                 | 79.35 |
| <i>tephritoptera</i> (Hendel), 1936 ( <i>Paramycodrosophila</i> ), <i>Drosophila</i> .. | 79.13 |
| <i>tessellata</i> (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....     | 79.10 |
| <i>thomasensis</i> Heed, 1962, <i>Drosophila</i> .....                                  | 79.14 |
| <i>thoracis</i> Williston, 1896, <i>Drosophila</i> .....                                | 79.25 |
| <i>tibialis</i> Wheeler, 1957, <i>Drosophila</i> .....                                  | 79.30 |
| <i>tira</i> Wasserman, 1962, <i>Drosophila</i> .....                                    | 79.23 |
| <i>tolteca</i> Patterson & Mainland, 1944, <i>Drosophila</i> .....                      | 79.28 |
| <i>torrei</i> Sturtevant, 1921, <i>Drosophila</i> .....                                 | 79.30 |
| <i>Trachyleucophenga</i> Hendel, 1917 .....   | 79.7  |
| <i>trachyopa</i> Duda, 1925, <i>Neorhinoleucophenga</i> .....                           | 79.31 |
| <i>tranquilla</i> Spencer, 1943, <i>Drosophila</i> .....                                | 79.23 |
| <i>trapeza</i> Heed & Wheeler, 1957, <i>Drosophila</i> .....                            | 79.23 |
| <i>travassosi</i> Frota-Pessoa, 1947, <i>Clastopteromyia</i> .....                      | 79.10 |
| <i>triangula</i> Wheeler, 1949, <i>Drosophila</i> .....                                 | 79.23 |
| <i>triangulina</i> Duda, 1927, <i>Drosophila</i> .....                                  | 79.23 |
| <i>tricoloripes</i> Duda, 1925, <i>Neotanygastrella</i> .....                           | 79.32 |
| <i>trifiloides</i> Wheeler, 1957, <i>Drosophila</i> .....                               | 79.23 |
| <i>trifilum</i> Frota-Pessoa, 1954, <i>Drosophila</i> .....                             | 79.23 |
| <i>tripunctipennis</i> Malloch, 1926, <i>Leucophenga</i> .....                          | 79.4  |
| <i>triseta</i> Malloch, 1924, <i>Clastopteromyia</i> .....                              | 79.10 |
| <i>triseta</i> (Duda), 1925 ( <i>Oxyphortica</i> ), <i>Stegana</i> .....                | 79.7  |
| <i>tristani</i> Sturtevant, 1921, <i>Drosophila</i> .....                               | 79.25 |
| <i>tristriata</i> Heed & Wheeler, 1957, <i>Drosophila</i> .....                         | 79.23 |
| <i>tropicalis</i> Burla & Cunha, 1949, <i>Drosophila</i> .....                          | 79.28 |
| <i>tuchaua</i> Pavan, 1950, <i>Drosophila</i> .....                                     | 79.23 |
| <i>umbripennis</i> Hendel, 1936, <i>Drosophila</i> .....                                | 79.30 |
| <i>undulata</i> (Hendel), 1913 ( <i>Oxyleucophenga</i> ), <i>Leucophenga</i> .....      | 79.4  |
| <i>unifasciventris</i> Malloch, 1926, <i>Leucophenga</i> .....                          | 79.4  |
| <i>uniformis</i> Malloch, 1924, <i>Stegana</i> .....                                    | 79.7  |



|   |       |
|---|-------|
| unipunctata Patterson & Mainland, 1943, <i>Drosophila</i> .....               | 79.23 |
| uninubes Patterson & Mainland, 1943, <i>Drosophila</i> .....                  | 79.23 |
| uniradiata (Duda), 1925 ( <i>Diathoneura</i> ), <i>Clastopteromyia</i> .....  | 79.10 |
|   |       |
| varia (Walker), 1849 ( <i>Drosophila</i> ), <i>Leucophenga</i> .....          | 79.4  |
| varicolor (Duda), 1925 ( <i>Protostegana</i> ), <i>Stegana</i> .....          | 79.7  |
| venustipoei Burla, 1956, <i>Zygothrica</i> .....                              | 79.37 |
| verticis Williston, 1896, <i>Drosophila</i> .....                             | 79.30 |
| victoria Sturtevant, 1942, <i>Drosophila</i> .....                            | 79.25 |
| viracochi Brncic & Koref Santibañez, 1957, <i>Drosophila</i> .....            | 79.23 |
| virgatalba Burla, 1956, <i>Zygothrica</i> .....                               | 79.37 |
| virgatinigra Burla, 1956, <i>Zygothrica</i> .....                             | 79.37 |
| virilis Sturtevant, 1916, <i>Drosophila</i> .....                             | 79.23 |
| vitripennis Duda, 1925, <i>Neorhinoleucophenga</i> .....                      | 79.31 |
| vittata (Coquillett), 1895 ( <i>Drosophila</i> ), <i>Scaptomyza</i> .....     | 79.34 |
| vittatifrons (Williston), 1896 ( <i>Drosophila</i> ), <i>Zygothrica</i> ..... | 79.37 |
| vitticlara Burla, 1956, <i>Zygothrica</i> .....                               | 79.37 |
| vittimaculosa Burla, 1956, <i>Zygothrica</i> .....                            | 79.37 |
| vittimarginata Burla, 1956, <i>Zygothrica</i> .....                           | 79.37 |
| vittimarmorata Burla, 1956, <i>Zygothrica</i> .....                           | 79.37 |
| vittinotialis Burla, 1956, <i>Zygothrica</i> .....                            | 79.37 |
| vittinubila Burla, 1956, <i>Zygothrica</i> .....                              | 79.37 |
| vittipocila Burla, 1956, <i>Zygothrica</i> .....                              | 79.37 |
| vittipunctata Burla, 1956, <i>Zygothrica</i> .....                            | 79.37 |
| vittisecta Burla, 1956, <i>Zygothrica</i> .....                               | 79.37 |
| vittivirgata Burla, 1956, <i>Zygothrica</i> .....                             | 79.38 |
| vorax Sabrosky, 1951, <i>Pseudistata</i> .....                                | 79.5  |
|   |       |
| whartoniae Pipkin & Heed, 1964, <i>Drosophila</i> .....                       | 79.23 |
| wheeleri Hackman, 1959, <i>Scaptomyza</i> .....                               | 79.34 |
| wheeleri Patterson & Alexander, 1952, <i>Drosophila</i> .....                 | 79.23 |
| willistoni Sturtevant, 1916, <i>Drosophila</i> .....                          | 79.28 |
| wingei Cordeiro, 1964, <i>Drosophila</i> .....                                | 79.23 |
|   |       |
| xanthopallescens Pipkin, 1964, <i>Drosophila</i> .....                        | 79.23 |
| xiphiphora Pipkin, 1964, <i>Drosophila</i> .....                              | 79.31 |
|   |       |
| Zapriothrica Wheeler, 1956 .....  | 79.38 |
| Zygodrosophila Hendel, 1917 .....   | 79.35 |
| zygopoei Burla, 1956, <i>Zygothrica</i> .....                                 | 79.38 |
| <i>Zygothrica</i> Wiedemann, 1830 .....                                       | 79.35 |

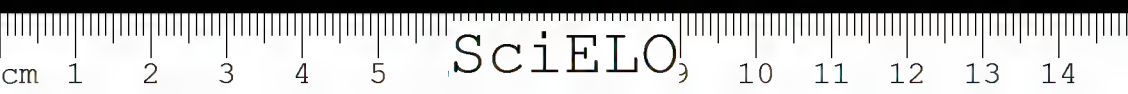


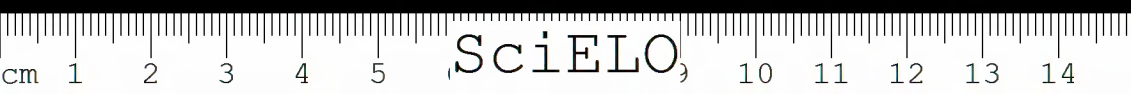




SciELO®







SciELO

